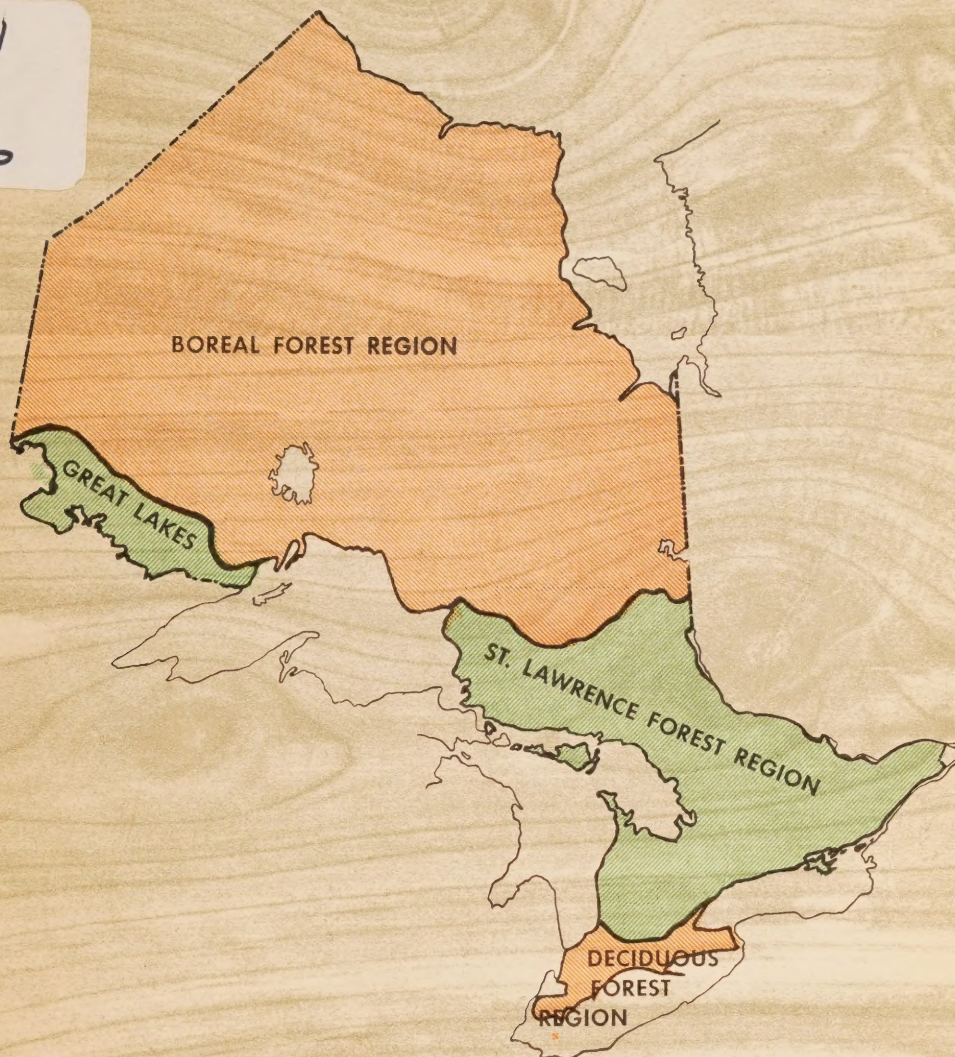


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**The Forest Resources of Ontario**

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**Department of Lands and Forests**

**Hon. A. Kelso Roberts, Q.C.**  
Minister

*Timberlands*  
**F. A. MacDougall**  
Deputy Minister





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# *The Forest Resources of Ontario*

## *1963*

by  
R. M. DIXON  
Timber Branch

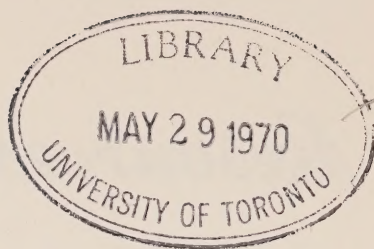


ONTARIO

Department of Lands and Forests

Hon. A. Kelso Roberts, Q.C.  
*Minister*

F. A. MacDougall  
*Deputy Minister*



## PREFACE

- Under modern conditions, national prosperity depends to a large degree upon the development of manufacturing industries based upon adequate supplies of raw materials. Wood, the principal product of the forests, can be used in a wide variety of manufacturing processes. Since forest resources are, in the short term, fixed in extent, an accurate knowledge of their productive capacity is an essential prerequisite to the development of forest-based industries. In addition, in order to establish a policy aimed at the rational development and utilization of the forest resources, a sound knowledge of the extent, nature, and conditions of the forests is required.

These data are provided by a forest inventory. Theoretically, the ideal condition would exist if the inventory could be completed in one year, but, for a variety of practical reasons, this is seldom possible. Inventories of large forest areas, therefore, represent a compromise between the intensity of the inventory and the area to be covered on the one hand, and the funds available and the time by which the results are required on the other.

This report summarizes the forest resources of Ontario as determined by a forest survey completed between 1946 and 1959. The information in this report was compiled from surveys carried out by the Department of Lands and Forests and by those licensees who were required by Statute to supply an inventory of the timber resources on their licensed areas.

Commencing April 1, 1951, the Federal Government, through the Department of Northern Affairs and National Resources, has reimbursed to the Province one-half of the expenditures incurred in forest resources inventory, under the terms of an agreement with the Province pursuant to the provisions of the Canada Forestry Act.



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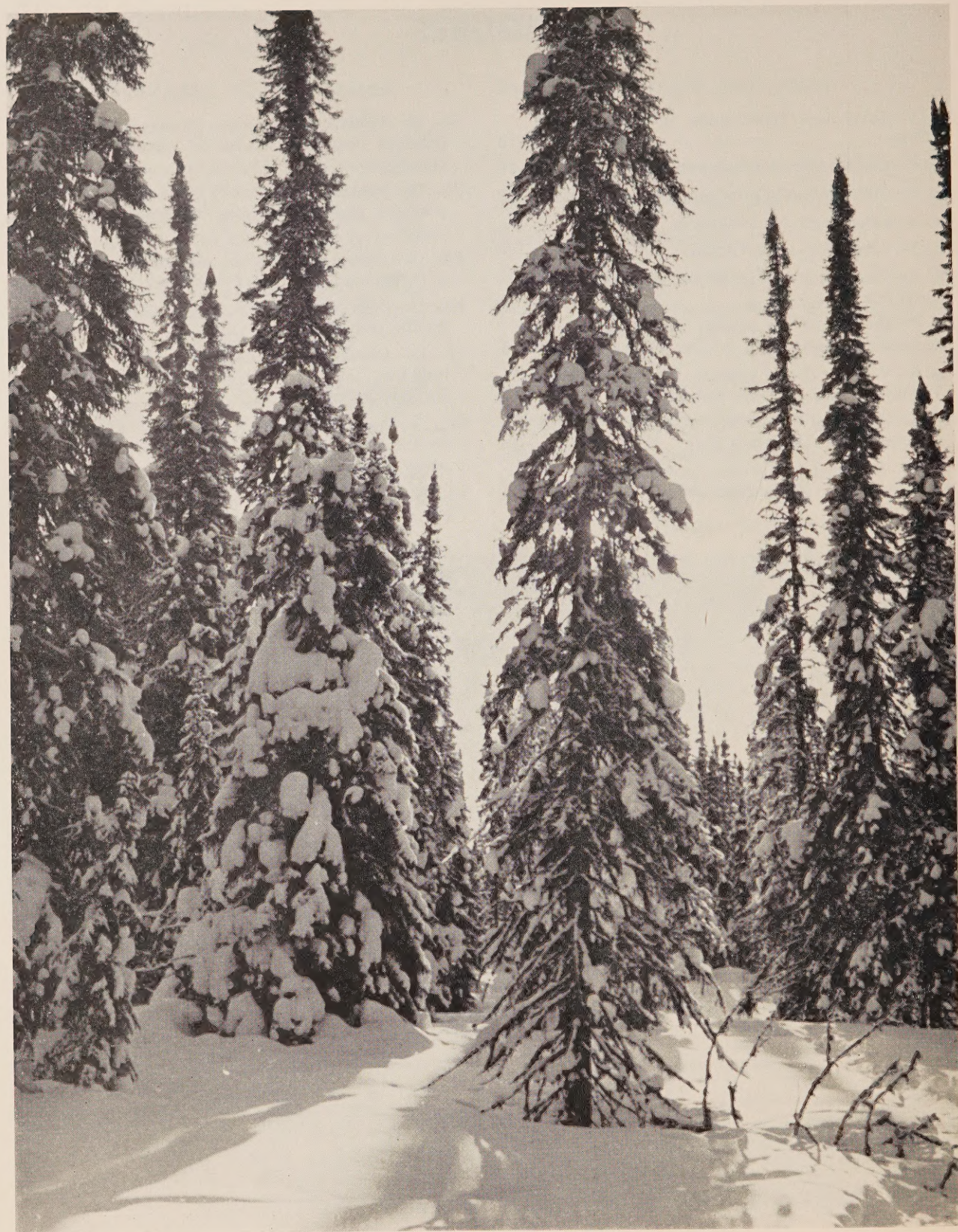


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# SURVEY HIGHLIGHTS

1. The total area of Ontario is 412,582 square miles. Excluding areas under the administration of the Federal Government, the area covered by this report is 409,905 square miles.

2. Land occupies 341,609 square miles, or 83 per cent of the total area; water, 68,283 square miles, or 17 per cent of the total area.

3. Forested land covers 75 per cent of the Province. Productive forest land, totalling 105,262,000 acres, occupies 40 per cent of Ontario, while 35 per cent is covered by non-productive forest land, and 8 per cent by non-forested land.

4. Eighty-nine per cent of the total area, and 90 per cent of the productive forest area, is owned by the Crown.

5. The productive forest area is classed as 46 per cent coniferous, 33 per cent mixedwoods, 13 per cent hardwood, and 8 per cent reproducing forest.

6. The principal species in Ontario is black spruce. Four species make up 72 per cent of the total wood

volume: black spruce 29 per cent, poplar 19 per cent, jack pine 13 per cent, and white birch 11 per cent.

7. The total growing stock in Ontario is nearly 151 billion cubic feet gross total volume, of which 61 per cent is coniferous and 39 per cent hardwood.

8. The pulpwood size class contains 62 per cent of the total volume, 72 per cent of the coniferous volume, and 47 per cent of the deciduous volume.

9. It is estimated that the forests of Ontario can sustain an annual allowable cut of 2.7 billion cubic feet, of which 85 per cent will be from Crown lands and 15 per cent from patented lands.

10. At present only 21 per cent of the allowable cut is harvested annually from Crown lands.

11. While conifers form 55 per cent and hardwoods 45 per cent of the allowable cut on Crown land, 91 per cent of the actual utilization is made up of conifers and 9 per cent of hardwoods.

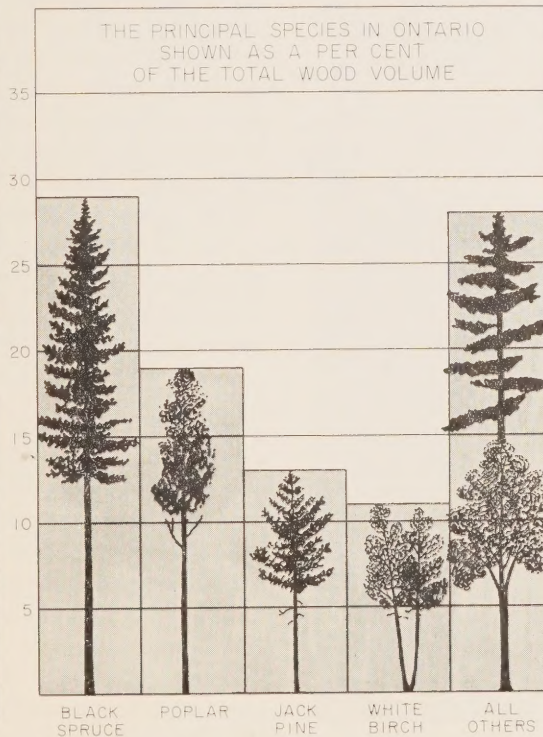
12. Of the actual annual cut, white and black spruce comprise 47 per cent, jack pine 21 per cent, and red and white pine 15 per cent.



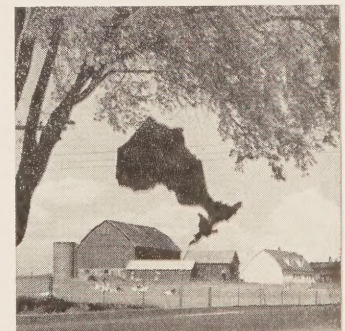
PRODUCTIVE FOREST LAND 40%



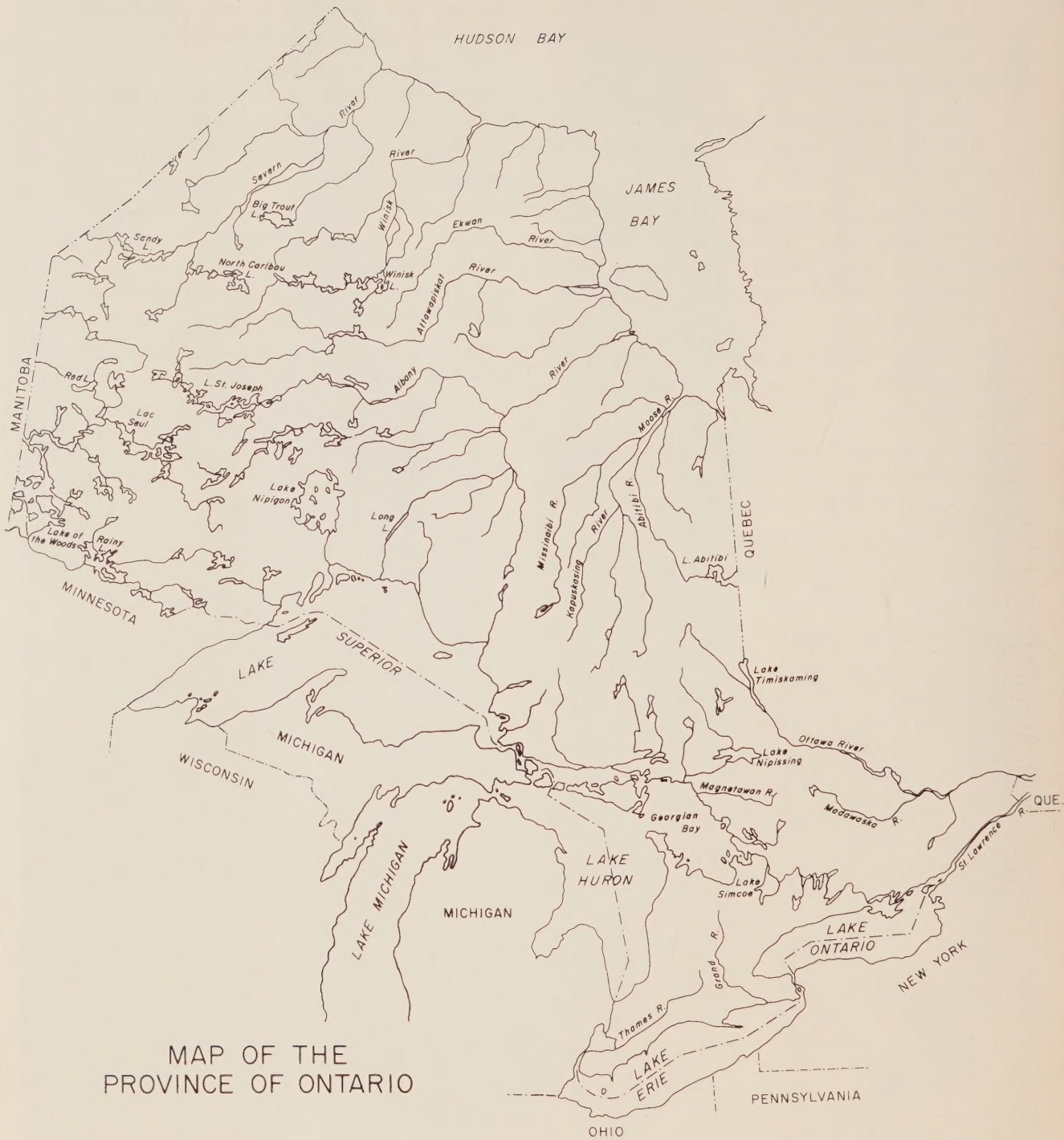
WATER 17%



NON-PRODUCTIVE FOREST LAND 35%



NON-FORESTED LAND 8%





# FOREST INVENTORY

## Introduction

• The Province of Ontario is an irregularly shaped area occupying the north-central portion of North America. Extending from 74° 21' to 95° 09' west longitude and from 41° 42' to 56° 50' north latitude, it is bounded on the east by the Province of Quebec and on the west by the Province of Manitoba. Although normally considered an inland province, James and Hudson Bay provide it with a sea coast several hundred miles in length. In the south, an extensive waterway, including the Great Lakes, forms a common boundary with the American States of Minnesota, Wisconsin, Michigan, Ohio, Pennsylvania, and New York.

Lying in the cool temperate climatic zone, Ontario is characterized by warm summers and cool winters, with a thick blanket of snow covering the ground for four to six months. Precipitation, ranging from 33 inches a year in the southern and central parts to 20 inches a year in the northwestern parts, is fairly well distributed throughout the year.

Ontario is an area of relatively low relief, the highest point in the Province being 2,120 feet above sea-level. In southern Ontario, four successive periods of glaciation eroded the limestones, sandstones, and shales. The resultant deep overburden and gentle slopes, with a high content of limestone and clay, form the highly productive and durable soils which produced ninety-five per cent of the agricultural wealth of the Province. The Canadian, or Precambrian, Shield occupies the central mass of Ontario. This rolling, rocky, eroded area with its thin, discontinuous soil mantle and innumerable lakes and streams, forms the main forest region. North of this area, flanking James and Hudson Bay, is a wide, flat, poorly drained area of sedimentaries less than 500 feet above sea-level.

Ontario's population of 6.2 million is concentrated in the southern part of the Province with ninety per cent living south of Lake Nipissing and approximately sixty-five per cent in the region south and southwest of Lake Simcoe. Both geography and history have influenced the concentration of Ontario's population in this southern area. Here are found the soil and climate suitable for the low-cost production of the perishable food products required by large communities, as well as the abundant supplies of water and level land essential for residential living and industrial

expansion. In addition, this area was settled at the start of the industrial era, and the ready-made transportation system in the Great Lakes-St. Lawrence waterway, canals, railroads and roads, as well as the available population, inevitably attracted industry to this region.

The forested areas of the Province, upon which the forest industries are dependent for raw materials, are remote from the principal centres of population. This has resulted in the extensive management of the forest resources, since cheap transportation over long distances remains the principal factor in profitable marketing. The past decade, however, has seen continuous progress in the transformation of the forests of Ontario from a stage of primary exploitation to one of controlled forest management.

With the completion of the forest inventory, the preparation of management plans was accelerated. Progress has been made in the protection of the forests from destructive agencies, and steps have been taken to ensure the regeneration of desirable species and the tending of established stands. Improved access to the more remote stands has permitted the distribution of the cut more evenly over the forest; while a more complete utilization of the valuable species and an increase in the utilization of the inferior species has occurred.



*Typical forest scene in central Ontario.*

## Areas

The total area of Ontario is 412,582 square miles, just over 264,000,000 acres. Excluding Indian Reserve lands and other areas under the administration of the Federal Government, this report covers 262,339,000 acres (table 1).

TABLE 1.—Total area classification of Ontario into broad land and ownership groups.

Land classification	Crown land	Patented land	Total
	Thousand acres	Thousand acres	Thousand acres
Productive forest land <sup>1</sup> .....	94,900	10,362	105,262
Non-productive forest land <sup>2</sup>			
Stagnant stands.....	18,069	.....	18,069
Treed muskeg (scrub).....	40,897	214	41,111
Open muskeg.....	7,421	255	7,676
Brush, alder, and flooded land.....	3,499	1,128	4,627
Rock outcrop.....	5,951	114	6,065
Barrens.....	141	19	160
Bogs.....	15,666	.....	15,666
TOTAL.....	91,644	1,730	93,374
TOTAL FORESTED LAND.....	186,544	12,092	198,636
Non-forested land <sup>3</sup>			
Developed agricultural land.....	87	12,772	12,859
Grass and meadow.....	80	2,567	2,647
Burn non-reproducing.....	1,787	30	1,817
Unclassified land <sup>4</sup> .....	444	1,126	1,570
Wooded pasture.....	10	1,091	1,101
TOTAL.....	2,408	17,586	19,994
TOTAL LAND AREA.....	188,952	29,678	218,630
Water			
Inland.....	21,852	.....	21,852
Great Lakes System <sup>5</sup> .....	21,857	.....	21,857
TOTAL.....	43,709	.....	43,709
TOTAL AREA.....	232,661	29,678	262,339

<sup>1</sup> Land bearing, or capable of bearing, timber of a commercial character and not withdrawn from such use.

<sup>2</sup> Lands which appear to be permanently out of the commercial timber-producing class, owing to very low productivity.

<sup>3</sup> Productive forest lands permanently withdrawn from timber production use.

<sup>4</sup> Lands occupied by settlements, roads, railroads, power lines, gravel-pits, etc.

<sup>5</sup> Includes those portions of the Great Lakes, Ottawa, St. Lawrence, Detroit, and St. Clair Rivers, which are within Ontario.

The total land area is 218,630,000 acres, or 341,609 square miles, comprising 83 per cent of the total area. Water, which occupies 43,709,000 acres, or 68,283 square miles, is almost equally divided between inland

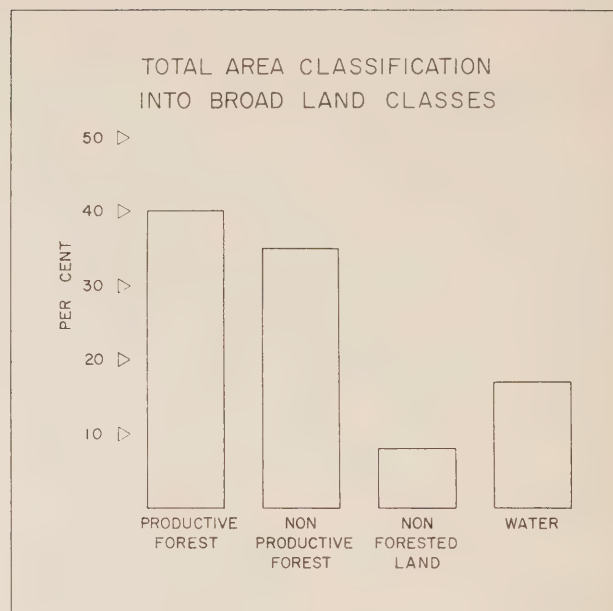


FIGURE 1

water and the Great Lakes system. Of the total land area, 198,636,000 acres are forested and 19,994,000 acres are non-forested. These represent 75 per cent and 8 per cent, respectively, of the total area of Ontario (fig. 1).

The forested area is classified into 105,262,000 acres of productive forest land and 93,374,000 acres of non-productive forest land. Treed muskeg accounts for 44 per cent of this non-productive forest area; stagnant stands, mostly of black spruce, in which the trees have reached rotation age while below 3.6 inches d.b.h. and 30 feet in height, occupy 19 per cent of this area. The remaining non-productive forest is made up of: 17 per cent bogs, 8 per cent muskeg, 7 per cent rock, 5 per cent brush, alder, flooded land and barrens (fig. 2).

Developed agricultural land, totalling 12,859,000 acres, forms 64 per cent of the non-forested area. Grass and meadow makes up 13 per cent of this area, non-reproducing burn 9 per cent, unclassified land 8 per cent, and wooded pasture 6 per cent (fig. 3).

The classification of Crown lands, which form 89 per cent of Ontario, is quite similar to that for the total area, but patented lands have a quite different distribution. Fifty-nine per cent of patented land is classified as non-forested land, 35 per cent as productive forest, and 6 per cent as non-productive forest. Non-forested land is 73 per cent developed agricultural land, 15 per cent grass and meadow, 6 per cent wooded pasture, and 6 per cent unclassified land.



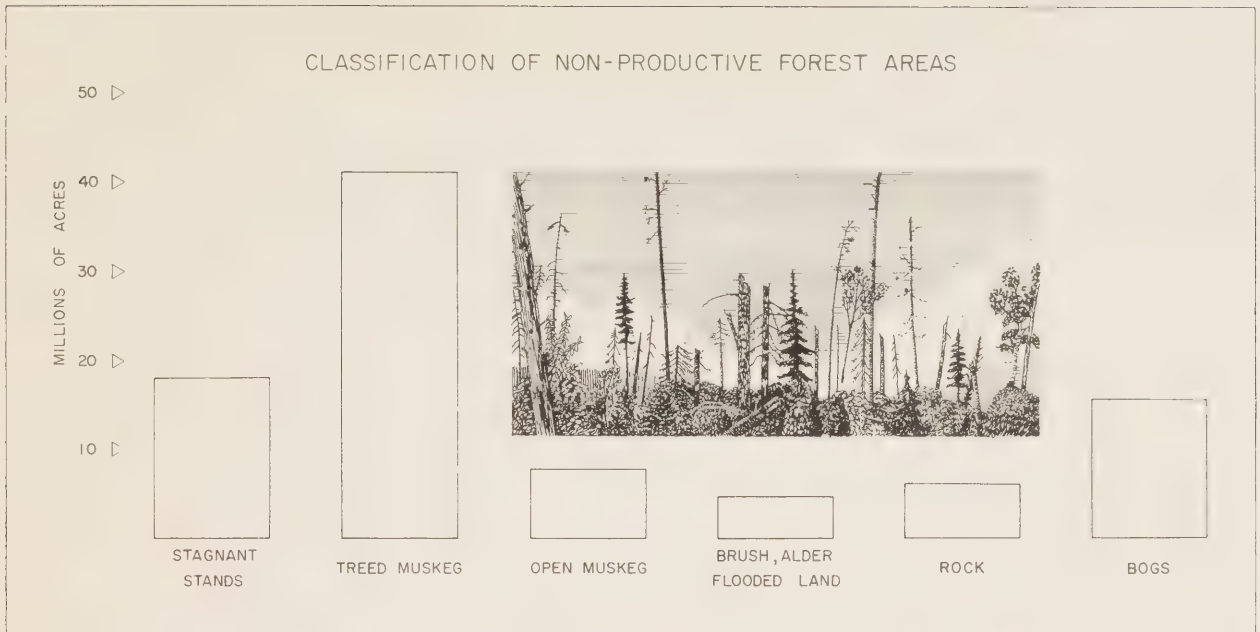


FIGURE 2

The principal land classifications by administrative districts and ownership groups (table 2) clearly indicate the concentration of patented lands in southern Ontario. The six districts of Kemptville, Tweed, Lindsay, Lake Simcoe, Lake Huron and Lake Erie contain 71 per cent of the privately owned land in Ontario.

These six districts also contain 89 per cent of the developed agricultural land in the Province. This is largely concentrated in the three districts of southwestern Ontario which contain 63 per cent of this classification. The Kemptville district, in southeastern Ontario, has 13 per cent of the developed agricultural land in Ontario.

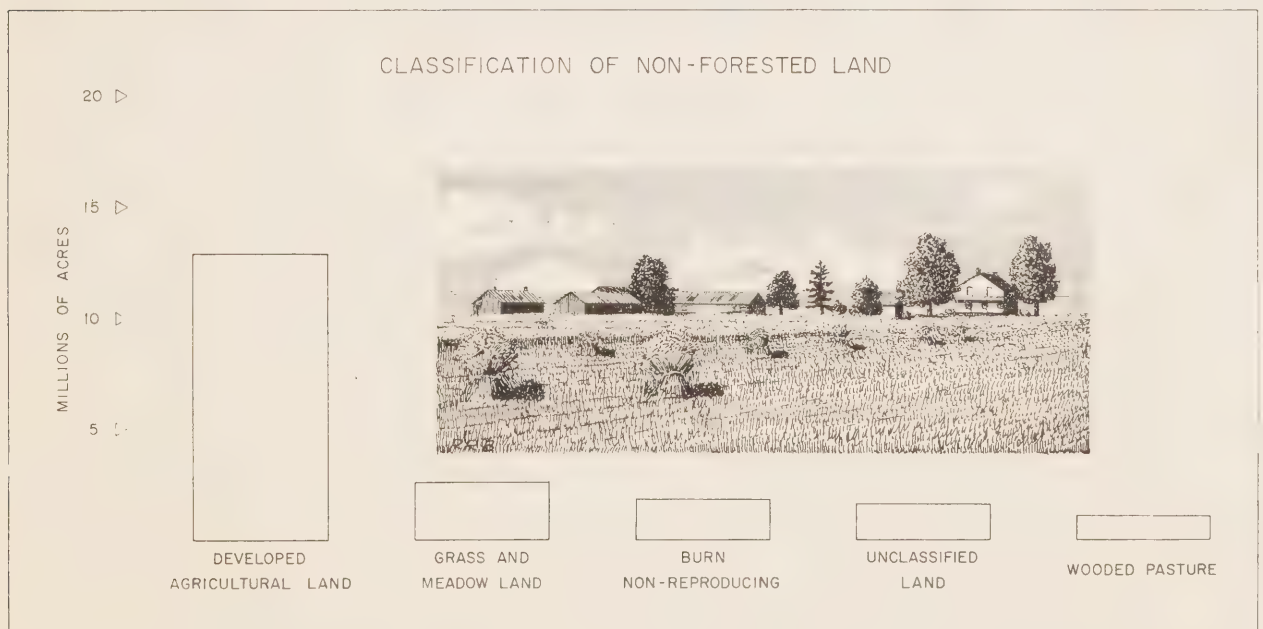


FIGURE 3

TABLE 2.—Principal land classifications by administrative districts and ownership groups—Ontario.

FOREST DISTRICT	OWNER-SHIP	TOTAL AREA	TOTAL LAND AREA	FORESTED LAND						NON-FORESTED LAND						WATER <sup>2</sup>
				Pro-DUCTIVE	Non-PRODUCTIVE				De-VELOPED AGRICUL-TURAL LAND	GRASS AND MEADOW	BURN NON-REPRO-DUCING	UNCLASSI-FIED LAND	WOODED PASTURE			
					OPEN MUSKEG	TREED MUSKEG	BRUSH, ALDER, FLOODED LAND	ROCK						BarRENS		
		acres	acres	acres	acres	acres	acres	acres	acres	acres	acres	acres	acres	acres	acres	
Chapleau	Crown Patented	4,090,342 98,670	3,687,353 98,670	3,234,571 91,168	228,697 2,348	58,346 2,198	140,209 972	2,062 2	2,691	20	462	16,316	3,979 1,490	.....	402,989	
	TOTAL	4,189,012	3,786,023	3,325,739	231,045	60,544	141,181	2,064	2,691	450	524	16,316	5,469	.....	402,989	
Cochrane	Crown Patented	6,636,460 718,690	6,133,032 718,690	4,943,563 546,749	579,642 8,509	383,903 49,529	178,609 43,366	6,369 1,122	55 38	13,087 47,565	4,983 6,847	4,892 1,360	17,929 13,605	.....	503,428	
	TOTAL	7,355,150	6,851,722	5,490,312	588,151	433,432	221,975	7,491	93	60,652	11,830	6,252	31,534	.....	503,428	
Fort Frances	Crown Patented	3,992,646 496,868	3,146,046 496,868	2,779,244 278,498	82,351 27,008	135,403 19,528	98,333 44,965	15,221 1,558	1,827	2,092 101,222	3,028 10,034	874	27,673 14,055	.....	846,600	
	TOTAL	4,489,514	3,642,914	3,057,742	109,359	154,931	143,298	16,779	1,827	103,314	13,062	874	41,728	.....	846,600	
Geraldton	Crown Patented	7,883,434 1,113	7,268,405 1,113	6,261,606 713	245,663	510,805	24,161 36	33,921	23,787 55	1,470	96 162	2,435	164,461 147	.....	615,029	
	TOTAL	7,884,547	7,269,518	6,262,319	245,663	510,805	24,197	33,921	23,842	1,470	258	2,435	164,608	.....	615,029	
Gogama	Crown Patented	3,879,899 130,350	3,595,843 130,350	3,333,060 122,236	100,914 1,456	82,020 2,818	66,863 3,190	1,953	259	62	5,018	2,195	3,499 500	.....	284,056	
	TOTAL	4,010,249	3,726,193	3,455,296	102,370	84,838	70,053	1,953	259	212	5,018	2,195	3,999	.....	284,056	
Kapuskasing	Crown Patented	9,356,981 1,037,328	8,991,128 1,037,328	7,216,987 844,709	661,270 9,307	817,303 71,030	240,259 65,654	15,323 754	37 34	12,913 39,547	8,724 1,208	1,748 252	16,564 4,833	.....	365,853	
	TOTAL	10,394,309	10,028,456	8,061,696	670,577	888,333	305,913	16,077	71	52,460	9,932	2,000	21,397	.....	365,853	
Kemptville	Crown Patented	131,892 3,197,596	36,636 3,197,596	13,192 503,688	568 32,222	238 8,558	14,518 161,074	24 6,976	.....	462 1,670,784	6,860 494,868	.....	4 101,926	770 217,206	95,256	
	TOTAL	3,329,488	3,234,232	516,880	32,790	8,796	175,592	7,000	.....	1,671,246	501,728	294	101,930	217,976	95,256	
Kenora	Crown Patented	7,488,334 284,228	5,549,460 284,228	4,990,219 218,588	112,399 2,858	258,279 12,088	80,728 7,050	25,980 390	25,068	3,346 32,584	2,688 2,342	417 18	50,336 8,310	.....	1,938,874	
	TOTAL	7,772,562	5,833,688	5,208,807	115,257	270,367	87,778	26,370	25,068	35,930	5,030	435	58,646	.....	1,938,874	
Lake Erie	Crown Patented	73,202 4,053,572	15,962 4,053,572	10,602 310,622	1,050 33,054	..... 112	1,220 71,322	..... 866	.....	270 2,904,146	274 342,796	.....	2,084 232,310	462 158,344	57,240	
	TOTAL	4,126,774	4,069,534	321,224	34,104	112	72,542	866	.....	2,904,416	343,070	.....	234,394	158,806	57,240	



Lake Huron	Crown Patented	112,696 5,556,608	39,066 5,556,608	19,002 719,186	2,444 7,750	40 3,646	7,744 195,882	852 6,876	.....	2,536 421,694	10	232 222,908	3,778 323,728	73,630
	TOTAL	5,669,304	5,595,674	738,188	10,194	3,686	203,626	7,728	.....	3,657,366	10	223,140	327,506	73,630
Lake Simcoe	Crown Patented	332,483 2,748,829	88,591 2,748,829	58,470 425,184	2,634 13,576	332 100	7,564 76,120	12,386 7,990	.....	2,555 332,996	.....	688 245,476	936 155,596	243,892
	TOTAL	3,081,312	2,837,420	483,654	16,210	432	83,684	20,376	.....	1,491,697	94	246,164	243,892	243,892
Lindsay	Crown Patented	856,808 2,476,684	596,964 2,476,684	526,580 963,082	5,988 21,780	672 1,094	33,682 86,248	23,004 9,792	.....	888 863,258	476	2,177 61,942	174 100,130	259,844
	TOTAL	3,333,492	3,073,648	1,489,671	27,768	1,766	119,930	32,796	.....	864,146	476	64,119	100,304	259,844
North Bay	Crown Patented	3,002,049 480,115	2,617,218 480,115	2,434,684 305,345	79,452 5,251	26,338 1,175	33,824 20,367	9,074 4,457	3,500 234	833 5,462	14,958 5,305	6,003 14,939	.....	384,831
	TOTAL	3,482,164	3,097,333	2,740,029	84,703	27,513	54,191	13,531	3,734	126,132	20,263	20,942	.....	384,831
Parry Sound	Crown Patented	2,231,696 1,598,929	1,810,242 1,598,929	1,640,025 1,207,562	40,461 15,972	18,549 6,903	58,556 63,309	37,901 10,698	56 174	4,635 205,807	1,572 848	4,283 30,112	.....	421,454
	TOTAL	3,830,625	3,409,171	2,847,587	56,433	25,452	121,865	48,599	230	210,442	2,420	34,395	.....	421,454
Penbroke	Crown Patented	2,616,427 719,935	2,341,996 719,935	2,176,322 387,359	51,323 3,846	24,267 1,440	74,780 16,846	188	755 6	3,201 284,415	2,319 387	6,029 14,338	.....	274,431
	TOTAL	3,336,362	3,061,931	2,563,681	55,169	25,707	91,626	188	761	287,616	2,706	20,367	.....	274,431
Port Arthur	Crown Patented	9,998,025 813,806	8,025,967 813,806	7,241,554 667,628	349,336 2,176	230,111 3,108	103,529 26,161	9,943 5,729	26,604	3,314 78,453	7,390 140	46,723 27,127	.....	1,972,058
	TOTAL	10,811,831	8,839,773	7,909,182	351,512	233,219	129,690	15,672	26,604	81,767	7,530	73,850	.....	1,972,058
Sault Ste. Marie	Crown Patented	4,748,749 699,150	4,343,771 699,150	4,173,862 518,446	69,784 5,032	18,889 4,732	38,092 21,470	3,395 3,608	22,684	2,068 107,508	1,599	7,520 18,000	.....	404,978
	TOTAL	5,447,899	5,042,921	4,692,308	74,816	23,621	59,562	7,203	22,684	109,636	1,599	25,580	.....	404,978
Sioux Lookout	Crown Patented	14,983,690 73,149	12,456,263 73,149	11,162,763 65,528	234,598 832	739,673 1,604	222,877 294	21,408 14	15,004	12 278	10,104	48,285 4,429	.....	2,527,427
	TOTAL	15,056,839	12,529,412	11,228,291	235,430	741,277	223,171	21,422	15,004	290	10,104	52,714	.....	2,527,427
Sudbury	Crown Patented	3,986,707 586,386	3,570,334 586,386	3,199,546 380,305	154,295 6,101	16,598 7,214	77,399 23,495	63,075 10,140	9,807 17,876	9,036 102,746	31,337 5,190	6,713 23,717	.....	416,373
	TOTAL	4,573,093	4,156,720	3,580,051	160,396	23,812	100,894	73,215	27,683	111,782	36,527	30,430	.....	416,373
Swastika	Crown Patented	2,692,106 757,096	2,510,835 757,096	2,235,108 474,795	58,633 4,763	57,226 13,975	103,042 68,842	7,345 2,236	6,220 623	12,457 159,565	20,279 12,872	6,568 14,777	.....	181,271
	TOTAL	3,449,202	3,267,931	2,709,903	63,396	71,201	173,884	9,581	6,843	172,022	33,151	21,345	.....	181,271

TABLE 2—Continued

FOREST DISTRICT	OWNER-SHIP	TOTAL AREA acres	TOTAL LAND AREA acres	FORESTED LAND					NON-FORESTED LAND					WATER <sup>2</sup> acres
				PRO-DUCTIVE acres	Non-PRODUCTIVE				DE-VELOPED AGRICUL-TURAL LAND acres	GRASS AND MEADOW acres	BURN AND NON-REPRO-DUCING acres	UNCLASSI-FIED LAND acres	WOODED <sup>1</sup> PASTURE acres	
					OPEN MUSKEG acres	TREED MUSKEG acres	BRUSH, ALDER, FLOODED LAND acres	ROCK acres						
Tweed	Crown	1,357,094	1,099,336	959,352	28,413	1,264	52,376	28,694	4,548	11,103	4,132	5,120	4,334	257,758
	Patented	3,099,576	3,099,576	1,284,555	49,892	1,844	130,311	40,636	209,070	472,420	3,712	71,198	135,938	
	TOTAL	4,456,670	4,198,912	2,243,907	78,305	3,108	182,687	69,330	913,618	483,523	7,844	76,318	140,272	
White River	Crown	4,326,138	3,992,773	3,820,505	97,100	39,492	13,815	8,360	2,933	222	10,346	106	333,365	333,365
	Patented	49,258	49,258	45,886	1,162	1,112	992							
	TOTAL	4,375,396	4,042,031	3,866,391	98,262	40,604	14,807	8,360	2,933		222	10,452		
Potentially Exploitable Area <sup>3</sup> (Surveyed) (Unsurveyed)		50,050,118	46,017,920	22,468,746	5,549,284 <sup>4</sup>	15,482,454 <sup>5</sup>	509,214	1,558,288		346	443,132	6,456		4,032,198
		65,975,710	61,016,825		14,351,157 <sup>4</sup>	40,063,646 <sup>5</sup>	1,315,523	4,066,162			1,220,337			4,958,885
	CROWN TOTAL	116,025,828	107,034,745	22,468,746	19,900,441 <sup>4</sup>	55,546,100 <sup>5</sup>	1,824,737	5,624,450		346	1,663,469	6,456		8,991,083
TOTAL—CROWN		210,803,686 <sup>2</sup>	188,951,966	94,899,572	23,087,456 <sup>4</sup>	58,965,848 <sup>5</sup>	3,498,917	5,951,128	87,416	79,472	1,786,744	443,672	10,454	21,851,720 <sup>2</sup>
		29,677,936	29,677,936	10,362,032	254,895	213,838	1,127,966	113,844	12,771,803	2,566,799	30,472	1,126,305	1,090,942	
	TOTAL—PATENTED	240,481,622 <sup>2</sup>	218,629,902	105,261,604	23,342,351 <sup>4</sup>	59,179,686 <sup>5</sup>	4,626,883	6,064,372	12,859,219	2,646,271	1,817,216	1,569,977	1,101,396	21,851,720 <sup>2</sup>
TOTAL, ONTARIO														

<sup>1</sup> This classification was only used for the six southern forest districts.<sup>2</sup> This table excludes the water area of 21,857,000 acres which occurs in the Great Lakes.<sup>3</sup> This area is Crown land; the "surveyed" portion was covered by the forest inventory; for the "unsurveyed" portion the area breakdown was estimated.<sup>4</sup> Includes 15,666,008 acres classified as bogs in the Potentially Exploitable Area.<sup>5</sup> Includes 18,069,208 acres classified as stagnant stands in the Potentially Exploitable Area.



## Forest Land Ownership

Forest lands in Ontario have generally been retained under public ownership, and the right to cut and remove timber from them has been granted by a licence. Lands suitable for agriculture have been opened for settlement, and lands have been granted or sold under the various land settlement regulations which have been in force from time to time. Lands are also patented for mining purposes, summer resorts, and other uses. All of these various types of ownership are grouped under "patented lands," which include all lands owned privately, in contrast to Crown lands.

From the earliest days, land settlement has been accompanied by various regulations under which certain tree species, principally oak and pine, were reserved to the Crown. In some mining patents all timber is reserved to the Crown. The ownership of timber on privately owned lands presents an exceedingly complicated subject, and in establishing an ownership classification for inventory no attempt has been made to segregate these various groups. Recorded patented land, with one exception, is treated as such, whether or not timber rights are vested in the Crown.

An exception occurs in the case of certain Grand Trunk Pacific blocks and townships comprising the

Algoma Central Railway land grant. These areas are patented land, but were included with Crown land in the forest inventory since they were not segregated from licensed Crown areas in company reports to the Department of Lands and Forests.

The Forestry Act (Stat. 1952, chap. 32) permits the Minister of Lands and Forests to enter into an agreement with the owners of lands that are suitable for forestry purposes for the reforestation and management of such lands for a stated period of years, which must not be less than twenty years. Agreements have been made to manage 143,312 acres for counties, townships, and conservation authorities. These areas are, for purposes of the forest inventory, included with Crown lands.

Within Ontario, 232,661,000 acres, or 89 per cent of the total area, are classed as Crown land, and 29,678,000 acres, or 11 per cent, are patented (fig. 4). Ninety per cent of the productive forest area, 94,900,000 acres, and 98 per cent of the non-productive forest land, 91,644,000 acres, are retained under Crown ownership. In contrast, non-forested lands are primarily under private ownership with 17,586,000 acres, 88 per cent of this classification, being patented.

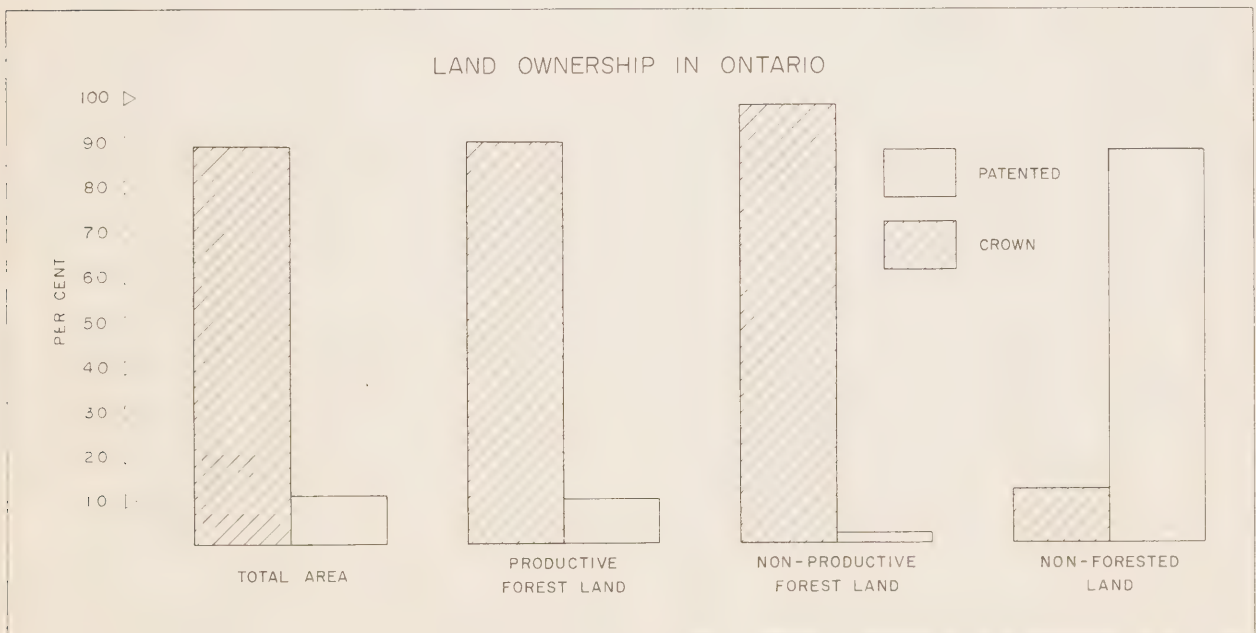


FIGURE 4

## Forest Regions

Three broad Forest Regions (fig. 5), characterized by a broad uniformity in physiognomy and in the composition of the dominant tree species, occur in Ontario. These are divided into Forest Sections, having distinctive patterns of vegetation and physiography, which formed the basis for the volume estimates compiled in the forest inventory.

In southwestern Ontario, between Lakes Huron, Erie and Ontario, is found the only occurrence of the *Deciduous Forest Region* in Canada. This area is underlain by Devonian, Silurian, and Ordovician limestones and shales, which are covered by deep glacial deposits. Topography is undulating to flat and plain-like, and the soils are very fertile. Owing to heavy settlement, the natural forest vegetation is restricted to farm woodlots and remnant stands on soils too poor to farm.

The forest communities are dominated by broad-leaved trees, and the characteristic association consists of beech and sugar maple with basswood, red maple, red, white and bur oak. The main Canadian distribution of black walnut, sycamore, swamp white oak, shagbark and bitternut hickory, butternut, rock elm, silver maple, and blue beech occurs in this area. Certain deciduous species, such as the tulip-tree, cucumber tree, papaw, red mulberry, Kentucky coffee tree, black gum, redbud, blue ash, sassafras, mockernut and pig-nut hickories, scarlet, black and pin oaks, reach their northern limit here. Coniferous species are scarce, with only a scattered occurrence of white pine, larch, red juniper, and hemlock.

North of the Deciduous Forest, along the Great Lakes-St. Lawrence and Ottawa valley, is the *Great Lakes-St. Lawrence Forest Region*. It is broken by Lake Superior, starts again west of this lake and, including the Sibley Peninsula, extends west to the Lake-of-the-Woods. This forest has a very mixed composition containing hardwoods common to the Deciduous Forest Region and conifers common to the Boreal Forest Region. The characteristic species are red and white pine, eastern hemlock, and yellow birch. There is a wide distribution of sugar and red maple, white birch, trembling aspen, black and white spruce, white cedar, balsam fir, and jack pine; while red oak, basswood, white elm, large-tooth aspen, beech, white oak, butternut, white ash, and balsam poplar are common, but more restricted in their occurrence.

The greater part of the forested area of Ontario lies in the *Boreal Forest Region*. This forest is primarily composed of conifers, with white and black spruce the characteristic species. Balsam fir, jack pine, white birch, and trembling aspen occur throughout this forest region. Within this forest are found the most highly productive pulpwood stands in the Province.

When it passes from the Precambrian Shield to the Palaeozoic sedimentaries of the coastal plain, this forest becomes transitional in character. Occupying an area of flat topography and poor drainage, and subjected to increasingly unfavourable climatic conditions, the tree species are reduced in number, size, and distribution. Good tree growth is restricted to the low alluvial banks of streams and to the old sea beaches, which formed sandy ridges, paralleling the coast. Here white spruce, balsam fir, trembling aspen, and white birch occur. Back from the rivers are vast areas of muskegs and bogs, characteristic of this region. The prevalent tree association is black spruce and larch, greatly reduced in growth. As the coast of Hudson Bay is approached, white spruce, larch, and finally black spruce disappear. This forest-tundra section is a transitional zone, between the subarctic forest and tundra, where a pattern of barren tundra with scattered patches of stunted forest is characteristic.

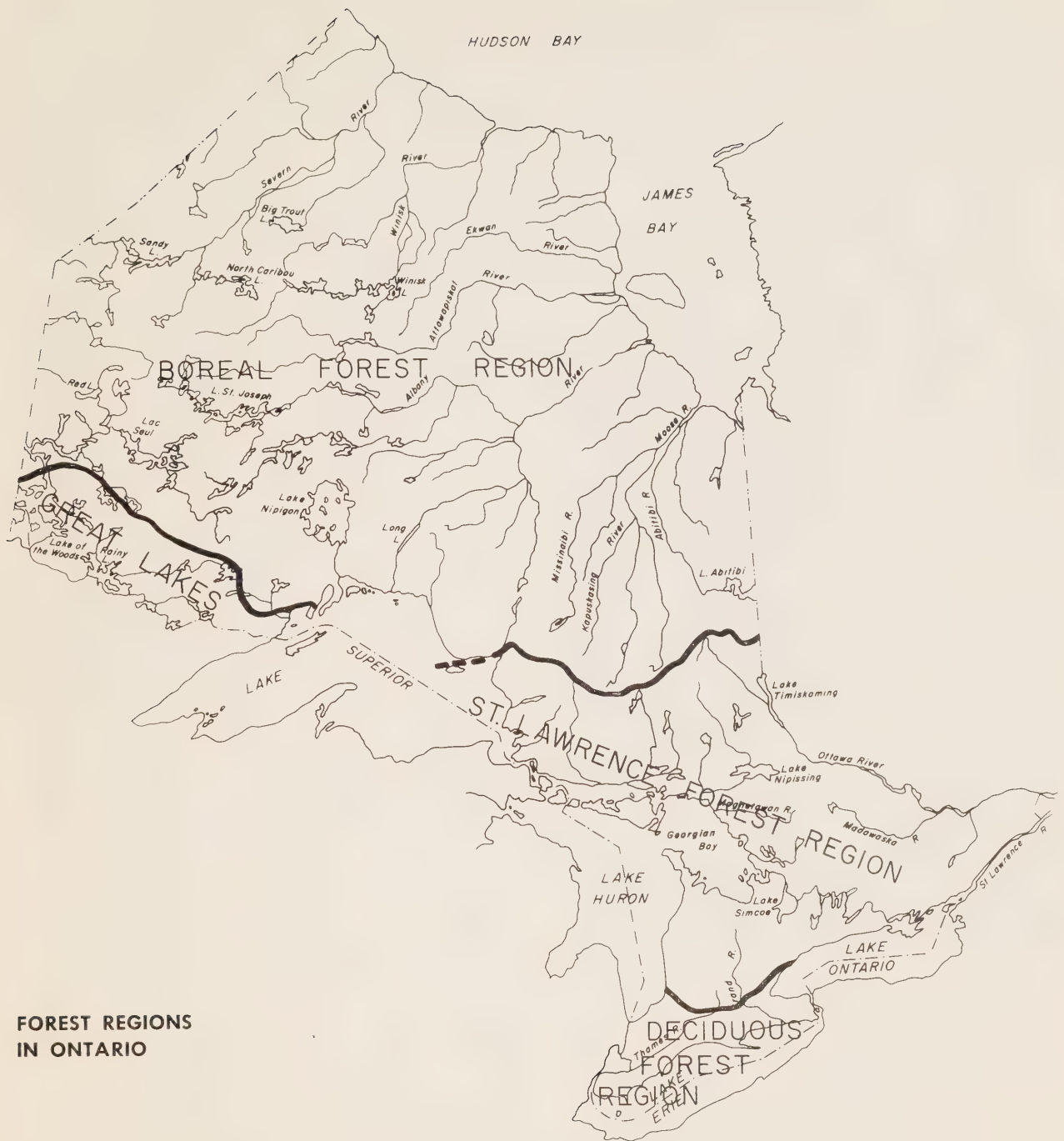
## Cover Types

The forest inventory of Ontario recognized three main cover types: coniferous, hardwood, and mixedwoods. The coniferous type is one in which 75 per cent or more of the number of trees are conifers or softwood trees; the hardwood type is composed of 75 per cent or more of hardwood or broadleaved trees. All other combinations are classed as mixedwoods. In addition to the three main cover types, there are areas of natural reproduction too recently established to have attained a sufficiently stable composition to be classified into cover types.

TABLE 3.—*Classification of productive forest land in Ontario into cover types and ownership groups.*

Cover type	Crown land		Patented land		Total	
	Thousand acres	per cent	Thousand acres	per cent	Thousand acres	per cent
Coniferous.....	46,697	49	1,598	15	48,295	46
Hardwood.....	9,051	10	4,632	45	13,683	13
Mixedwoods.....	31,575	33	3,688	36	35,263	33
Reproducing forest.....	7,577	8	444	4	8,021	8
TOTAL.....	94,900	100	10,362	100	105,262	100





**FOREST REGIONS  
IN ONTARIO**

FIGURE 5



The coniferous cover type occupies 48,295,000 acres, or 46 per cent of the productive forest area (table 3). The mixedwoods type covers 35,263,000 acres, or 33 per cent, and the hardwood type 13,683,000 acres, or 13 per cent (fig. 6). The remaining 8 per cent, or 8,021,000 acres, is classed as reproducing forest.

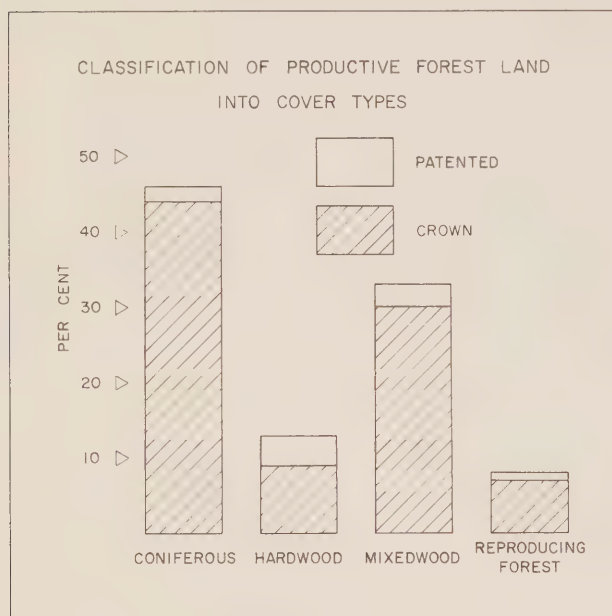


FIGURE 6

On Crown lands the distribution is 49 per cent coniferous, 33 per cent mixedwoods, 10 per cent hardwood, and 8 per cent reproducing forest. The hardwood cover type is the most common on patented lands, occupying 4,631,000 acres, or 45 per cent of the total area. It is followed by the mixedwoods type, which covers 36 per cent, the coniferous 15 per cent, and reproducing forest 4 per cent.

Twenty-six species or species groups occur in sufficient volume to be recorded in this inventory. Four species make up 72 per cent of the total wood volume in Ontario. Black spruce, with 44 billion cubic feet, representing 29 per cent of the total volume, is the leading species in the Province. Poplar, with 28 billion cubic feet, forms 19 per cent of the total volume; jack pine, with 20 billion cubic feet, 13 per cent; and white birch, with 16 billion cubic feet, 11 per cent. The other important species by volume are balsam fir, representing 6 per cent of the total; white spruce 5 per cent; sugar maple 4 per cent; white pine 3 per cent; and white cedar 2 per cent. The remaining 17 species, or species groups, form less than one per cent of the wood volume in Ontario.

## Volume

The volume of the primary growing stock includes all living trees, 3.6 inches d.b.h. outside bark and over, which are standing on the productive forest lands of the Province; it consists of the wood volume inside bark in cubic feet, including stump and top and cull or defective portions of living trees, but excludes all limb wood.

The volume of the primary growing stock in Ontario is nearly 151 billion cubic feet (150,683,457,000 cubic feet), an average of 1,432 cubic feet per acre. Crown lands produce 90 per cent of the wood volume and patented lands 10 per cent.

The volume on Crown lands is 135 billion cubic feet (table 4, fig. 7), an average of 1,423 cubic feet per acre. Patented lands produce nearly 16 billion cubic feet, or 1,508 cubic feet per acre.

TABLE 4.—Cubic-foot volumes of primary growing stock on productive forest land in Ontario by species and ownership groups.

Species	Crown land Thousand cu. ft.	Patented land Thousand cu. ft.	Total Thousand cu. ft.
White pine.....	3,227,820	668,933	3,896,753
Red pine.....	1,014,842	106,599	1,121,441
Jack pine.....	19,557,452	567,109	20,124,561
Pitch pine.....	23	199	222
White spruce.....	7,335,088	563,926	7,899,014
Black spruce.....	42,694,292	1,571,172	44,265,464
Balsam fir.....	8,663,936	760,519	9,424,455
Hemlock.....	975,198	434,421	1,409,619
White cedar.....	2,306,980	712,135	3,019,115
Red cedar.....	14	2,169	2,183
Larch.....	163,812	38,977	202,789
<b>TOTAL CONIFERS.....</b>	<b>85,939,457</b>	<b>5,426,159</b>	<b>91,365,616</b>
Sugar maple.....	4,115,585	2,291,033	6,406,618
Soft maple.....	290,713	575,122	865,835
Yellow birch.....	3,383,637	802,261	4,185,898
Beech.....	260,883	368,897	629,780
Elm.....	184,434	885,662	1,070,096
Ironwood.....	88,819	105,834	194,653
Red oak.....	204,876	263,979	468,855
White oak.....	2,381	53,841	56,222
White birch.....	15,029,736	1,185,615	16,215,351
Poplar.....	25,130,391	2,952,641	28,083,032
Ash.....	264,307	355,464	619,771
Basswood.....	126,870	255,136	382,006
Black cherry.....	29,743	58,775	88,518
Butternut.....	102	4,887	4,989
Hickory.....	845	38,872	39,717
Other hardwoods.....	5,665	835	6,500
<b>TOTAL HARDWOODS.....</b>	<b>49,118,987</b>	<b>10,198,854</b>	<b>59,317,841</b>
<b>TOTAL ALL SPECIES.....</b>	<b>135,058,444</b>	<b>15,625,013</b>	<b>150,683,457</b>

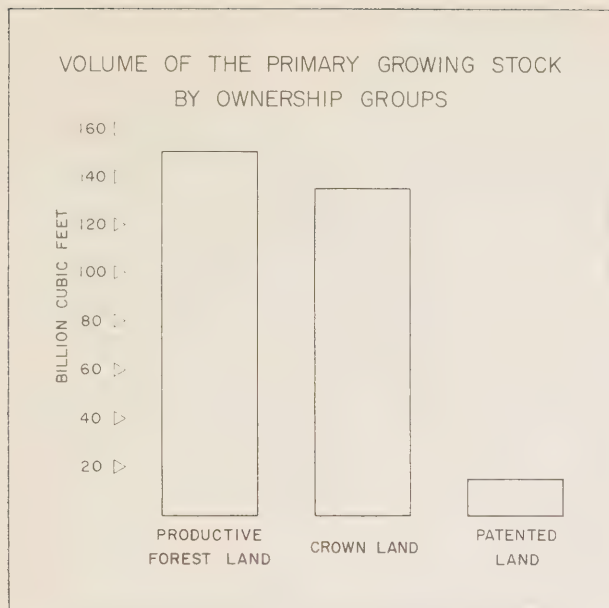


FIGURE 7

## Species

Coniferous species form 61 per cent and hardwoods 39 per cent of the primary growing stock on productive forest lands in Ontario. Crown lands produce 86 billion cubic feet of conifers and 49 billion cubic feet of hardwoods; patented lands contain 5 billion cubic feet of conifers and 10 billion cubic feet of hardwoods (fig. 8).

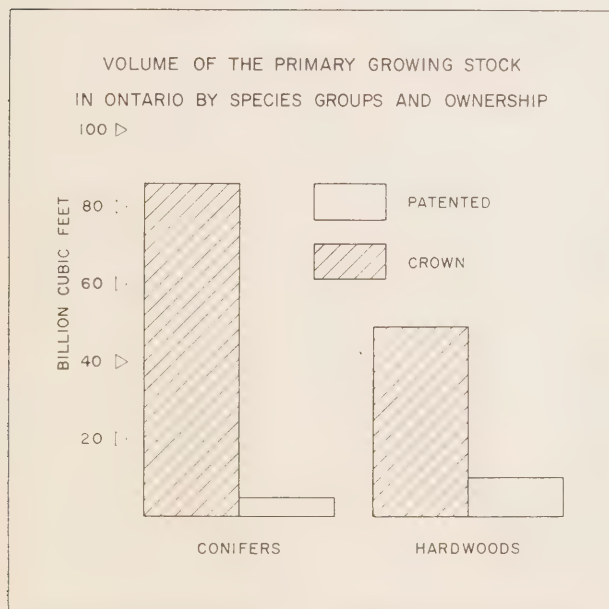


FIGURE 8

Black spruce is the principal species in Ontario. Four conifers make up 89 per cent of the softwood volume: black spruce 48 per cent, jack pine 22 per cent, balsam fir 10 per cent, and white spruce 9 per cent. Poplar, which ranks second in volume to black spruce, is the principal hardwood. Four species contain 92 per cent of the deciduous volume: poplar 47 per cent, white birch 27 per cent, sugar maple 11 per cent, and yellow birch 7 per cent.



*Black spruce—the principal tree species in Ontario.*

On Crown lands, conifers form 64 per cent and hardwoods 36 per cent of the total volume. Species retain the same relative positions as on productive forest land with the principal species being black spruce, poplar, jack pine, white birch, balsam fir, white spruce, sugar maple, white pine, yellow birch, and white cedar (fig. 9).

Hardwoods form 65 per cent of the volume on patented lands and two species, poplar and sugar maple, make up 51 per cent of the hardwood volume.



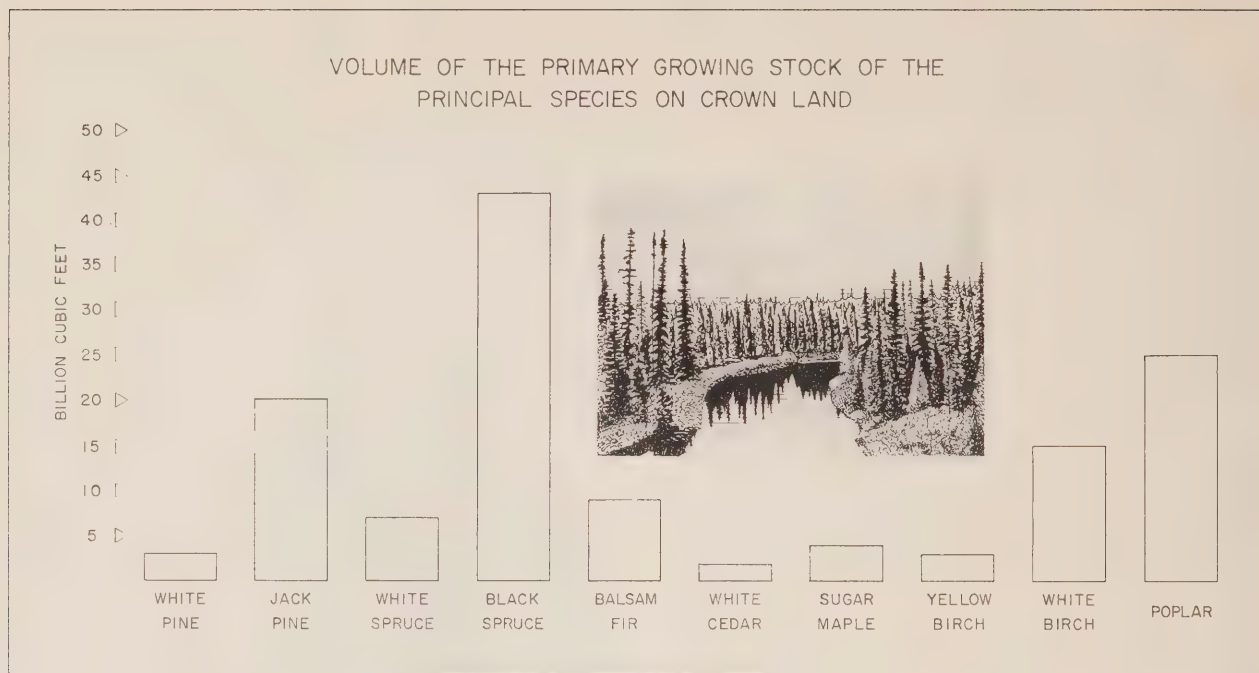


FIGURE 9

The principal hardwoods are poplar, which forms 29 per cent of the deciduous volume, sugar maple 22 per cent, white birch 12 per cent, elm 9 per cent, and yellow birch 8 per cent (fig. 10). The principal conifer is black spruce, which forms 29 per cent of the conif-

erous volume. Other conifers which form a significant proportion of the softwood volume are balsam fir with 14 per cent, white cedar 13 per cent, white pine 12 per cent, and jack pine 10 per cent.

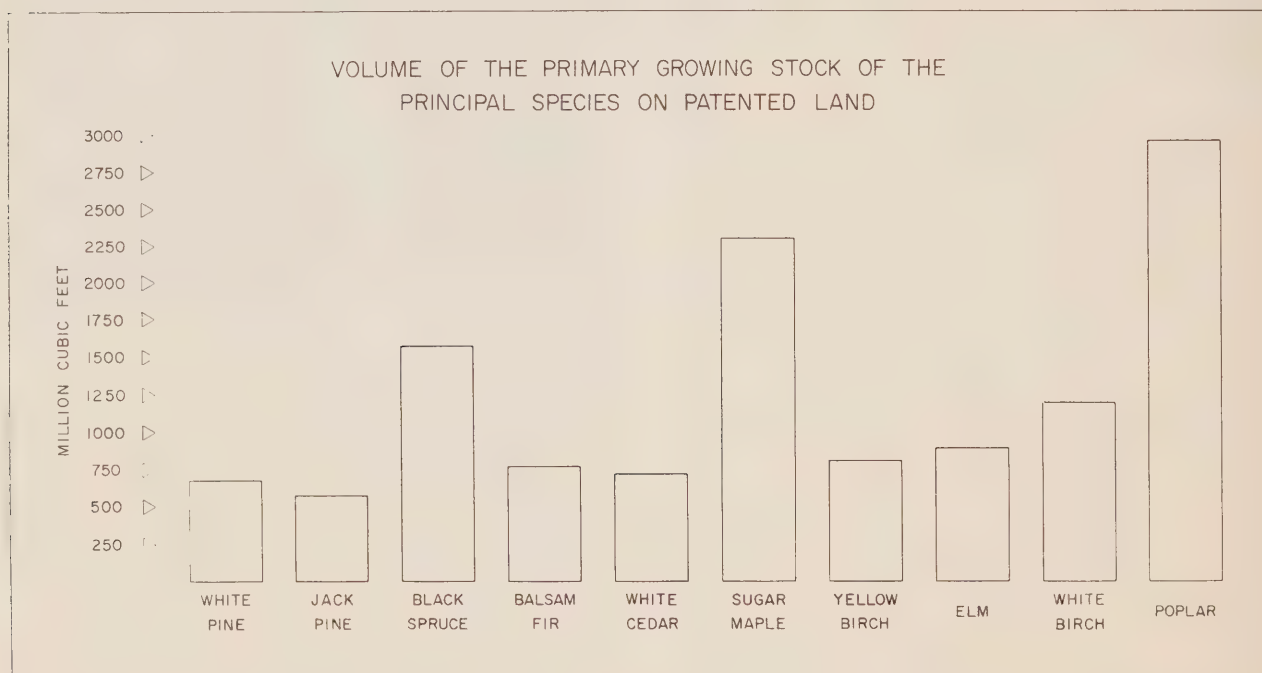
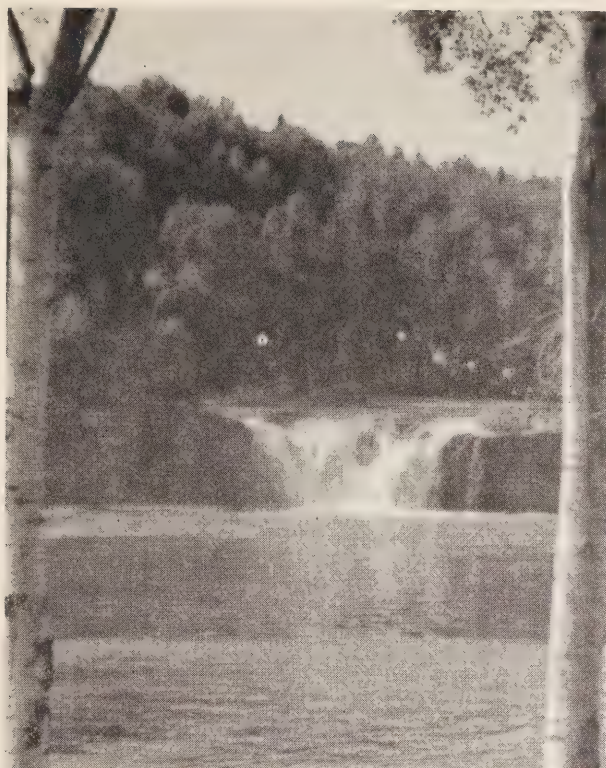


FIGURE 10



Mixedwoods forest in Great Lakes-St. Lawrence Forest Region.

## Size-class Relationship

In compiling the inventory, volumes of the primary growing stock are shown for two size classes, the smaller material from 4 to 9 inches d.b.h. and the larger trees 10 inches d.b.h. and over. Volumes in trees 4 to 9 inches d.b.h. are considered as pulpwood and cordwood material, depending on species. In addition, products such as poles, posts, and railway ties may be obtained from this size class. Volumes in the 10-inch and over size class have values for sawlogs and other uses where large timber is required. A tree 10 inches d.b.h. outside bark will, on the average, produce one log sixteen feet long, 8 inches in diameter inside bark at the small end. There is, in addition, residual smaller-size material in the top which may be used as pulpwood or for purposes other than saw timber. The total quantity of wood in this residual top is relatively small, and is included in the 10 inches and over material in all inventory estimates.

The 4 to 9-inch size class contains nearly 94 billion cubic feet (table 5), which represents 62 per cent of the volume of the primary growing stock. The 10-inch and over class makes up the remaining 38 per cent, totalling some 57 billion cubic feet.

TABLE 5.—Cubic-foot volumes of primary growing stock on productive forest land in Ontario by species and in two size classes.

Species	4"-9" d.b.h.	10" up d.b.h.	Total
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
White pine.....	759,884	3,136,869	3,896,753
Red pine.....	262,259	859,182	1,121,441
Jack pine.....	13,637,962	6,486,599	20,124,561
Pitch pine.....	90	132	222
White spruce.....	2,844,250	5,054,764	7,899,014
Black spruce.....	38,609,370	5,656,094	44,265,464
Balsam fir.....	7,548,699	1,875,756	9,424,455
Hemlock.....	349,745	1,059,874	1,409,619
White cedar.....	1,413,148	1,605,967	3,019,115
Red cedar.....	1,638	545	2,183
Larch.....	177,764	25,025	202,789
<b>TOTAL CONIFERS.....</b>	<b>65,604,809</b>	<b>25,760,807</b>	<b>91,365,616</b>
Sugar maple.....	1,917,892	4,488,726	6,406,618
Soft maple.....	460,542	405,293	865,835
Yellow birch.....	503,134	3,682,764	4,185,898
Beech.....	183,503	446,277	629,780
Elm.....	346,282	723,814	1,070,096
Ironwood.....	172,359	22,294	194,653
Red oak.....	228,796	240,059	468,855
White oak.....	21,837	34,385	56,222
White birch.....	10,026,642	6,188,709	16,215,351
Poplar.....	13,709,143	14,373,889	28,083,032
Ash.....	351,292	268,479	619,771
Basswood.....	102,957	279,049	382,006
Black cherry.....	59,881	28,637	88,518
Butternut.....	1,388	3,601	4,989
Hickory.....	24,375	15,342	39,717
Other hardwoods.....	5,024	1,476	6,500
<b>TOTAL HARDWOODS.....</b>	<b>28,115,047</b>	<b>31,202,794</b>	<b>59,317,841</b>
<b>TOTAL ALL SPECIES.....</b>	<b>93,719,856</b>	<b>56,963,601</b>	<b>150,683,457</b>

Sixty-two per cent of the coniferous volume occurs in the cordwood size class. This totals 66 billion cubic feet, while only 26 billion cubic feet, representing 38 per cent of the coniferous volume, is classed as sawlog material. Of the principal coniferous species, five produce mainly saw timber (fig. 11). This size class contains 80 per cent of the white pine volume, 77 per cent of the red pine, 75 per cent of the hemlock, 64 per cent of the white spruce, and 53 per cent of the white cedar. The three principal conifers, however, have most of their volume in the pulpwood size class, which contains 87 per cent of the black spruce, 80 per cent of the balsam fir, and 68 per cent of the jack pine.

The hardwood volume is more equally distributed between the two diameter groups with 47 per cent in the cordwood class and 53 per cent in the sawlog class. Poplar and white birch make up 75 per cent of the total hardwood volume. Poplar has 51 per cent of



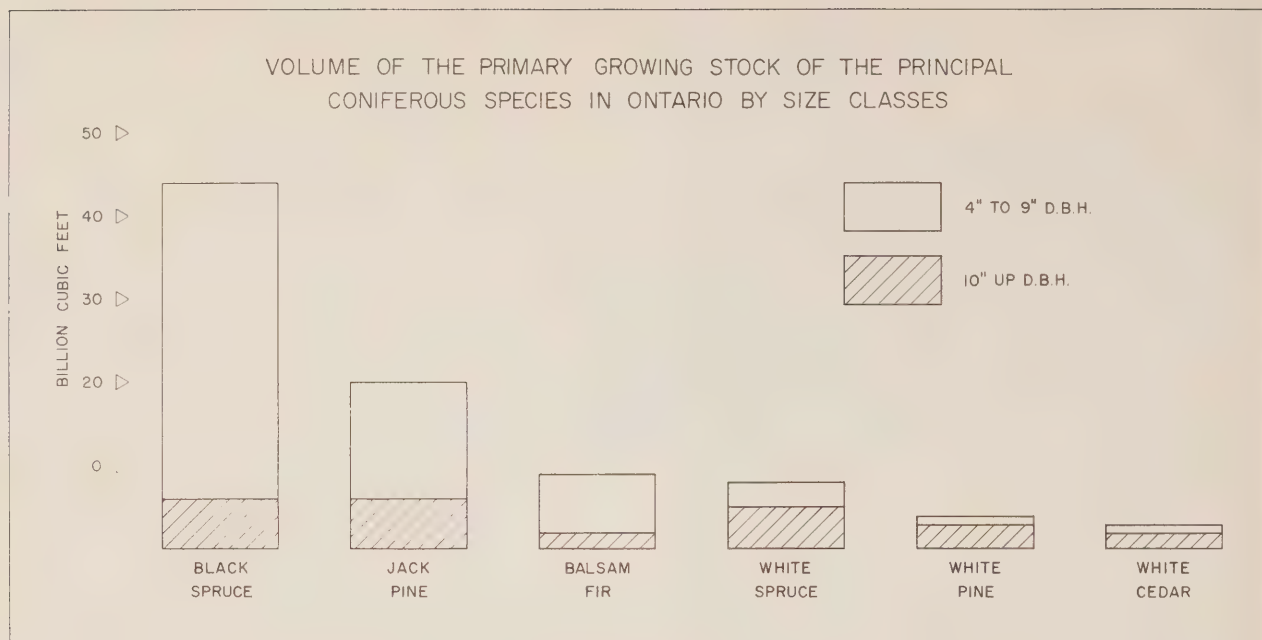


FIGURE 11

its volume in the 10-inch and over class, while white birch has 62 per cent of its volume in the 4 to 9-inch class (fig. 12). The two most important hardwoods commercially are sugar maple and yellow birch, and these species produce primarily sawlog material having 70 and 88 per cent of their respective volumes in this

size class. Of the other hardwoods, beech, elm, white oak, and basswood have most of their volume in the larger class; ironwood, ash, and black cherry in the smaller class; and the volume of red oak and soft maple is almost equally divided between the two size groups.

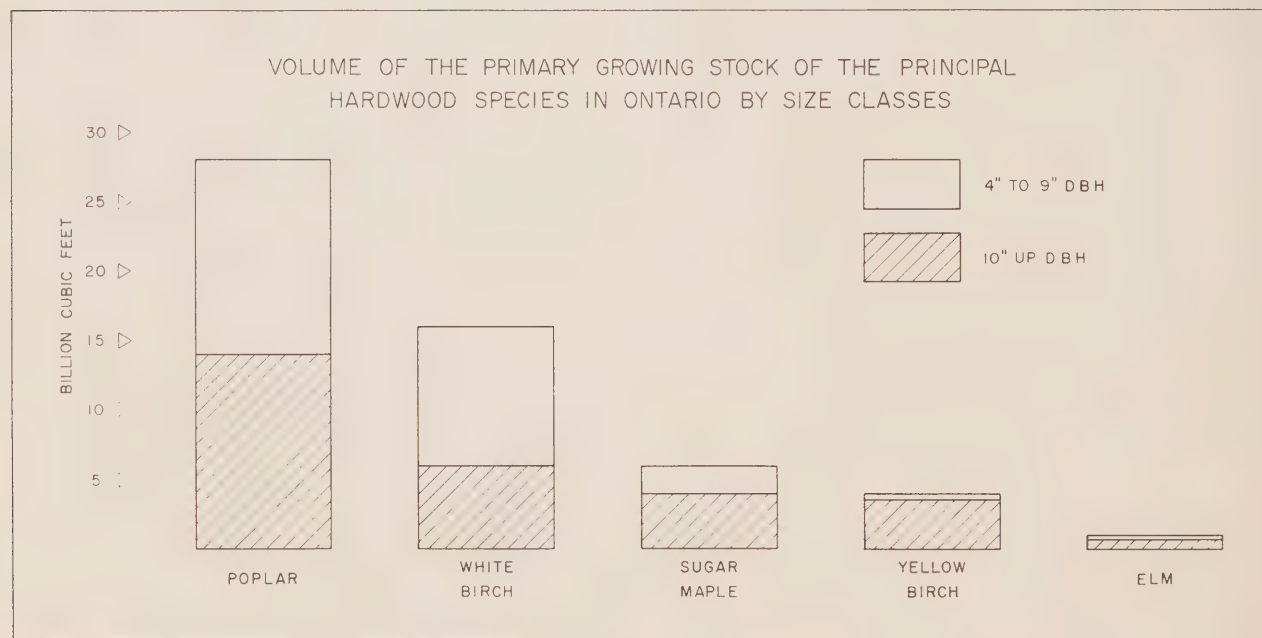


FIGURE 12

## Allowable Cut

Because the forested area, growing stock, and utilization standards are constantly changing, calculations of allowable cut are valid for a period of about ten years. At the end of this time it is necessary to reassess the growing stock and recalculate the allowable cut. With effective forestry practices, allowable cuts for the valuable species will increase; without them, the less desirable species will form a greater proportion of the forest, and the permissible cut of the valuable species will decrease.

The allowable cut (table 6) is a summation of the allowable cuts calculated for the individual inventory reports, one to twenty-three. For these reports the allowable cut was computed for each species, using a volumetric formula and the appropriate rotation for the species. Thus the allowable cut results from the volume of the primary growing stock and the rotation adopted for each species.

TABLE 6.—Cubic-foot volumes of the annual allowable cut on productive forest land in Ontario by species and ownership groups.

Species	Crown land	Patented land	Total
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
White pine.....	32,254	13,737	45,991
Red pine.....	13,871	3,216	17,087
Jack pine.....	413,427	16,332	429,759
Pitch pine.....		6	6
White spruce.....	105,027	12,711	117,738
Black spruce.....	551,794	21,943	573,737
Balsam fir.....	139,345	19,912	159,257
Hemlock.....	5,031	5,430	10,461
Cedar.....	15,893	12,687	28,580
Larch.....	2,459	849	3,308
<b>TOTAL CONIFERS.....</b>	<b>1,279,101</b>	<b>106,823</b>	<b>1,385,924</b>
Sugar maple.....	30,476	42,957	73,433
Soft maple.....	1,725	26,825	28,550
Yellow birch.....	37,858	12,534	50,392
Beech.....	1,687	4,611	6,298
Elm.....	675	16,606	17,281
Ironwood.....	573	1,984	2,557
Red oak.....	149	4,950	5,099
White oak.....	6	673	679
White birch.....	263,626	31,863	295,489
Poplar.....	702,313	140,798	843,111
Ash.....	1,774	6,638	8,412
Basswood.....	1,489	7,973	9,462
Black cherry.....	115	1,102	1,217
Butternut.....		92	92
Hickory.....	6	729	735
Other hardwoods.....	1,720	91	1,811
<b>TOTAL HARDWOODS.....</b>	<b>1,044,192</b>	<b>300,426</b>	<b>1,344,618</b>
<b>TOTAL ALL SPECIES.....</b>	<b>2,323,293</b>	<b>407,249</b>	<b>2,730,542</b>

The forests of Ontario, as presently constituted, can sustain an annual allowable cut, or net depletion, of 2.7 billion cubic feet (2,730,541,000 cubic feet). Of this allowable cut, 2,323,292,000 cubic feet, or 85 per cent, is from Crown lands and 407,249,000 cubic feet, or 15 per cent, from patented lands. The allowable cut is almost equally distributed between the species groups, with conifers comprising 51 per cent and hardwoods 49 per cent of the permissible cut.

## CROWN LAND

Crown lands provide 92 per cent of the coniferous, and 78 per cent of the hardwood, allowable cut in Ontario. The annual allowable cut for Crown lands represents 1.7 per cent of the primary growing stock, or 24 cubic feet per acre from the productive forest area. Conifers, totalling 1.3 billion cubic feet, make up 55 per cent of this allowable cut, while the 1.0 billion cubic feet of hardwoods represents 45 per cent of the total.

Black spruce, with 43 per cent, and jack pine, with 32 per cent, make up 75 per cent of the coniferous allowable cut. The remainder is composed of 11 per cent balsam fir, 8 per cent white spruce, and 6 per cent of white and red pine, hemlock, cedar, and larch.

Four hardwoods form 99 per cent of the deciduous allowable cut: poplar 67 per cent, white birch 25 per cent, yellow birch 4 per cent, and sugar maple 3 per cent. The remaining one per cent is made up of some dozen hardwoods, of which soft maple, beech, ash, and basswood are the most important.

## PATENTED LAND

The annual allowable cut for patented lands is 407 million cubic feet. This represents 2.6 per cent of the primary growing stock, or 39 cubic feet per acre for the productive forest area. Hardwoods form 74 per cent of the allowable cut and conifers 26 per cent.

Poplar makes up 47 per cent of the hardwood allowable cut; sugar maple 14 per cent; white birch 11 per cent; soft maple 9 per cent; elm 6 per cent; and yellow birch 4 per cent. Ten species, or species groups, form the remaining 9 per cent.

Of the coniferous allowable cut, black spruce forms 21 per cent, balsam fir 19 per cent, jack pine 15 per cent, white pine 13 per cent, and white cedar 12 per cent. These five species provide 80 per cent of the allowable cut of conifers. White spruce, hemlock, and red pine account for most of the remaining 20 per cent.



## Utilization and Allowable Cut

The volume of wood utilized on Crown lands is reported annually<sup>1</sup>. In preparing the inventory reports for forest districts, the actual utilization was based on a five-year average. Because of changes in administrative boundaries, it was necessary, for certain reports, to use the data for a one-year period.

In all cases, the average annual cut by products was obtained from scaling summaries which might be in cubic feet, cords, feet board measure, lineal feet or pieces. Appropriate converting factors were used to convert the annual cut to gross total cubic feet by species (table 7).

Coniferous species, totalling 437,863,000 cubic feet, make up 91 per cent of the wood utilized from Crown lands. The actual hardwood cut, 9 per cent of the total, is 46,090,000 cubic feet. Of the volume utilized on Crown land, black and white spruce form 47 per cent, jack pine 21 per cent, red and white pine 15 per cent, poplar 6 per cent, balsam fir 5 per cent, hemlock 3 per cent, yellow and white birch 2 per cent, and sugar maple one per cent.

A comparison of the actual and allowable annual cuts indicates that only 21 per cent of the permissible cut on Crown lands is harvested annually. There is thus a surplus of some 1.8 billion cubic feet that could safely be removed by forest operations. Four species—white birch, poplar, black spruce, and jack pine—contain most of the unused allowable cut. A considerable portion of this volume thus occurs in either less desirable species or in areas that are, at present, not readily accessible. It has been estimated<sup>2</sup> that approximately 0.32 per cent per annum of the growing stock is lost due to fire, insects, and decay. This totals some 432,187,000 cubic feet gross total volume, almost equal to the actual utilization. The residual volume available for operations is still 1.4 billion cubic feet.

Despite the overall surplus of timber certain species and certain areas of the Province are being overcut. A comparison of the actual and allowable annual cuts (table 8) shows that only 34 per cent of the coniferous and 4 per cent of the hardwood allowable cut is presently utilized.

The cut of red pine, white pine, and hemlock exceeds the allowable cut. There is a surplus of the other coniferous species, since only 35 per cent of the allowable

TABLE 7.—Cubic-foot volumes of wood utilized annually on Crown land in Ontario.

Species	Wood utilized	
	Thousand cu. ft.	per cent
Pine, red and white.....	70,547	15
Pine, jack.....	99,245	21
Spruce, white and black.....	229,591	47
Balsam fir.....	23,121	5
Hemlock.....	14,922	3
Other conifers.....	437	*
<b>TOTAL CONIFERS.....</b>	<b>437,863</b>	<b>91</b>
Maple, sugar.....	5,641	1
Birch, yellow and white.....	11,262	2
Poplar.....	26,982	6
Ash.....	38	*
Basswood.....	956	*
Other hardwoods.....	1,211	*
<b>TOTAL HARDWOODS.....</b>	<b>46,090</b>	<b>9</b>
<b>TOTAL ALL SPECIES.....</b>	<b>483,953</b>	<b>100</b>

\* Under one per cent.

cut of white and black spruce, 24 per cent of the jack pine, and 17 per cent of the balsam fir is utilized (fig. 13).

For no hardwood species does the actual utilization approach the permissible cut. Basswood, with 64 per cent of the allowable cut used, is the nearest to complete utilization. Only 4 per cent of the poplar allow-

TABLE 8.—Comparison of allowable cut with actual utilization on Crown land in Ontario by species.

Species	Allowable cut	Actual cut
	Thousand cu. ft.	Thousand cu. ft.
Pine, white and red.....	46,124	70,547
Pine, jack.....	413,427	99,245
Spruce, white and black.....	656,821	229,591
Balsam fir.....	139,345	23,121
Hemlock.....	5,031	14,922
Other conifers.....	18,353	437
<b>TOTAL CONIFERS.....</b>	<b>1,279,101</b>	<b>437,863</b>
Maple, sugar.....	30,476	5,641
Birch, yellow and white.....	301,484	11,262
Poplar.....	702,313	26,982
Ash.....	1,774	38
Basswood.....	1,489	956
Other hardwoods.....	6,656	1,211
<b>TOTAL HARDWOODS.....</b>	<b>1,044,192</b>	<b>46,090</b>
<b>TOTAL ALL SPECIES.....</b>	<b>2,323,293</b>	<b>483,953</b>

<sup>1</sup> Report of the Minister of Lands and Forests for the Province of Ontario.

<sup>2</sup> Statement prepared by the Ontario Department of Lands and Forests for British Commonwealth Forestry Conference 1957.

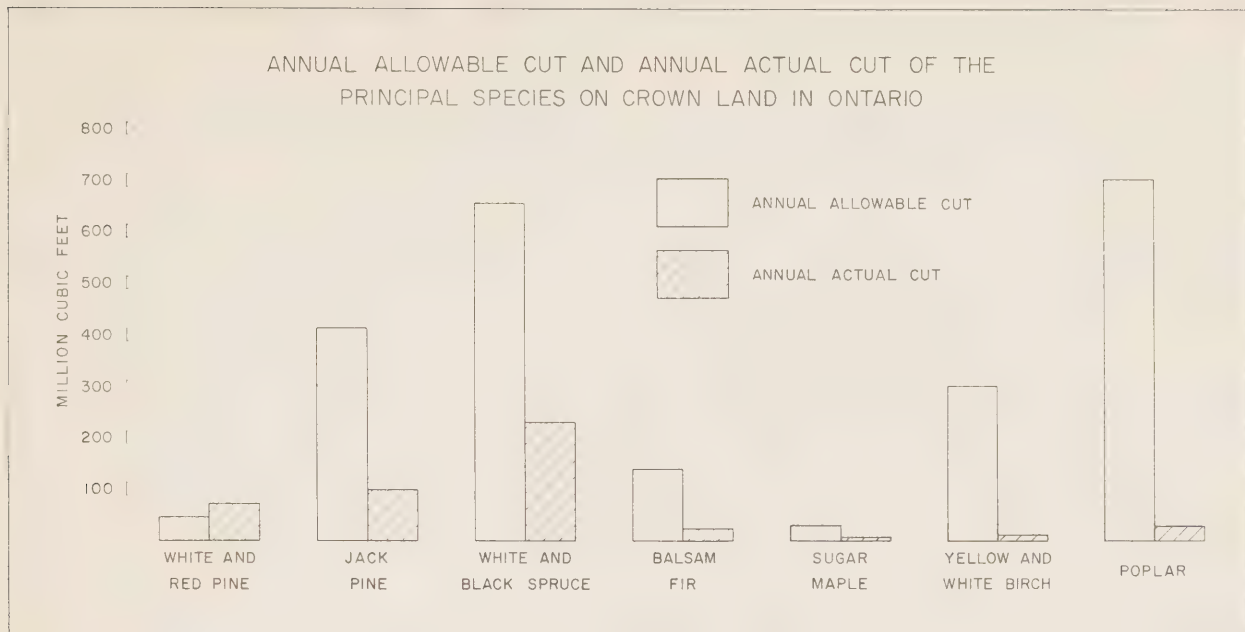


FIGURE 13

able cut of 702 million cubic feet is used. The cut of sugar maple is only 19 per cent of the allowable cut, and that for white and yellow birch only 4 per cent.

Statistics concerning the utilization of timber from patented lands in Ontario are not available. Such information as was available related only to products and gave no indication of the utilization by species. It is not possible, therefore, to make a realistic comparison between the actual and allowable cut for patented areas. Patented lands are concentrated in the

southern part of the Province, where the demand for wood products is high and the forested area is relatively small.

At the present time, however, there is little evidence that excessive volumes of wood are being removed from patented lands. Present operations appear to be confined to the extraction of high quality products and preferred species. If this trend continues, the resultant low-quality stands will present a difficult management problem.

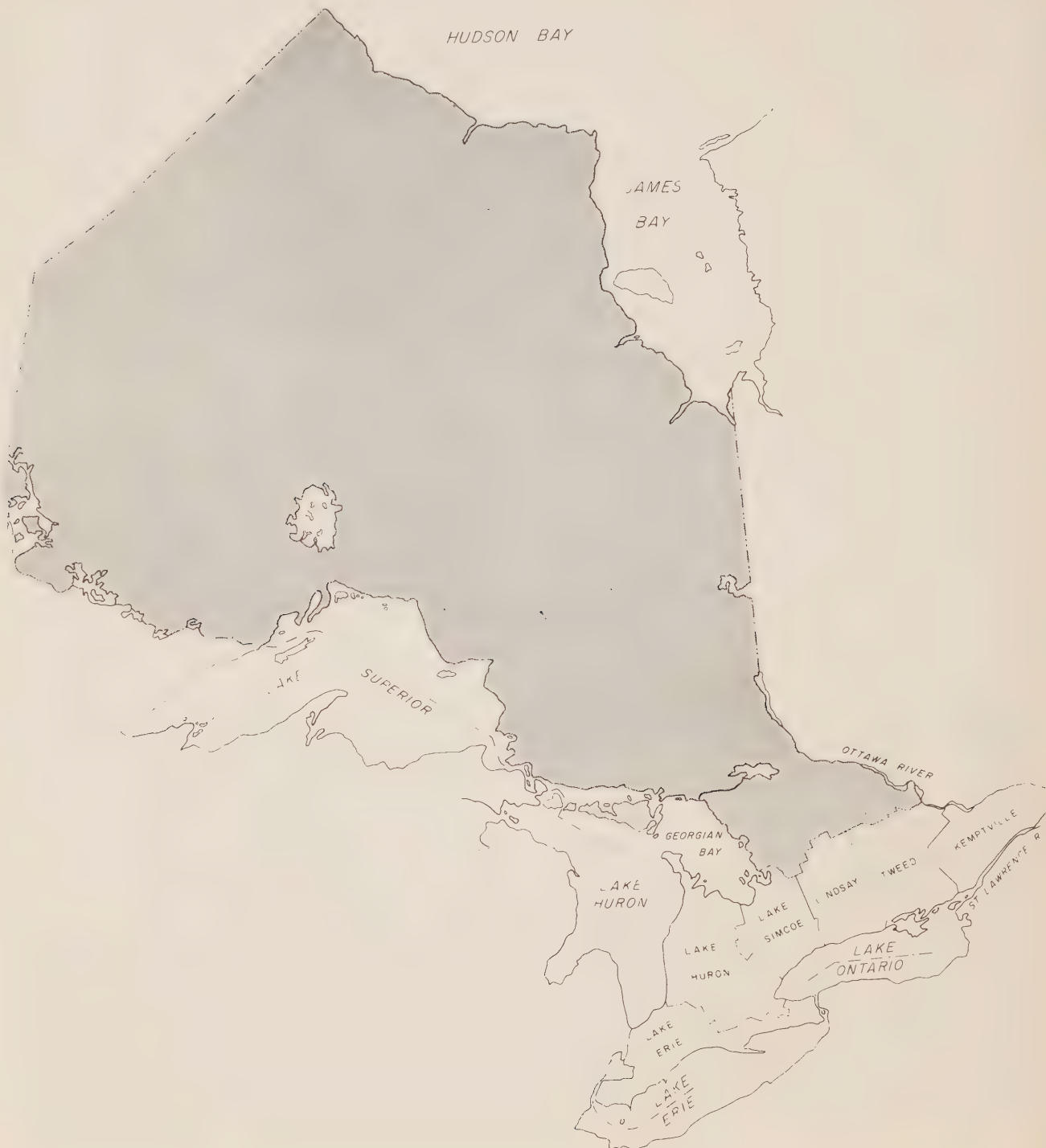


*Hardwood stand with conifers in foreground.*



# APPENDIX A

## SOUTHERN AGRICULTURAL ONTARIO



## SOUTHERN AGRICULTURAL ONTARIO

The summary tables for Southern Agricultural Ontario contain information covering six administrative districts of the Department of Lands and Forests, as they were organized at the time the forest inventory was carried out.

More detailed information on each individual district is contained in the following Forest Resources Inventory reports:

- Report No. 17 of the Kemptville District
- Report No. 18 of the Tweed District
- Report No. 19 of the Lindsay District
- Report No. 20 of the Lake Simcoe District
- Report No. 21 of the Lake Huron District
- Report No. 22 of the Lake Erie District

TABLE 9.—*Total area classification of Southern Agricultural Ontario into broad land and ownership groups.*

Land classification	Crown land	Patented land	Total
	Thousand acres	Thousand acres	Thousand acres
Productive forest land <sup>1</sup> .....	1,587	4,206	5,793
Non-productive forest land <sup>2</sup>			
Treed muskeg.....	3	15	18
Open muskeg.....	41	159	200
Brush, alder, flooded land.....	117	721	838
Rock.....	65	73	138
TOTAL.....	226	968	1,194
TOTAL FORESTED LAND.....	1,813	5,174	6,987
Non-forested land <sup>3</sup>			
Developed agricultural land.....	11	11,494	11,505
Grass and meadow.....	27	2,434	2,461
Burn — non-reproducing.....	5	4	9
Unclassified land <sup>4</sup> .....	10	936	946
Wooded pasture <sup>5</sup> .....	10	1,091	1,101
TOTAL.....	63	15,959	16,022
TOTAL LAND AREA.....	1,876	21,133	23,009
Water .....	6,956	.....	6,956
TOTAL AREA.....	8,832	21,133	29,965

<sup>1</sup> Land bearing or capable of bearing timber of a commercial character and not withdrawn from such use.

<sup>2</sup> Lands which appear to be permanently out of the commercial timber-producing class, owing to very low productivity.

<sup>3</sup> Productive forest lands permanently withdrawn from timber production use.

<sup>4</sup> Lands occupied by settlements, roads, railroads, power lines, gravel-pits, etc.

<sup>5</sup> Low density stands (comprised of a few large open-grown trees with wide-spreading crowns) that are usually heavily grazed.

TABLE 10.—*Classification of productive forest land in Southern Agricultural Ontario into cover types and age classes.*

Cover type and age class	Crown land		Patented land		Total	
	Thousand acres	per cent	Thousand acres	per cent	Thousand acres	per cent
Coniferous type:						
Mature.....	6	*	18	*	24	*
Immature.....	60	4	262	6	322	6
Young growth.....	3	*	31	1	34	1
TOTAL.....	69	4	311	7	380	7
Hardwood type:						
Mature.....	86	5	349	8	435	7
Immature.....	675	43	1,609	38	2,284	39
All-aged.....	5	*	320	8	325	6
Young growth.....	110	7	282	7	392	7
TOTAL.....	876	55	2,560	61	3,436	59
Mixedwoods type:						
Mature.....	18	1	53	1	71	1
Immature.....	562	36	1,008	24	1,570	27
All-aged.....	4	*	106	3	110	2
Young growth.....	25	2	115	3	140	3
TOTAL.....	609	39	1,282	31	1,891	33
Reproducing forest.....	33	2	53	1	86	1
TOTAL PRODUCTIVE FOREST.....	1,587	100	4,206	100	5,793	100

\* Less than one per cent.

TABLE 11.—*Cubic-foot volumes of primary growing stock on productive forest land in Southern Agricultural Ontario by cover type and age class, in two size classes.*

Cover type and age class	Crown land		Patented land		Total all lands
	4"-9" d.b.h.	10" up d.b.h.	4"-9" d.b.h.	10" up d.b.h.	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
Coniferous type:					
Mature.....	3,906	6,542	13,817	22,204	46,469
Immature.....	60,531	54,044	268,783	181,176	564,534
TOTAL.....	64,437	60,586	282,600	203,380	611,003
Hardwood type:					
Mature.....	47,391	180,472	155,962	722,679	1,106,504
Immature.....	446,000	381,868	1,229,487	933,163	2,990,518
All-aged.....	3,346	6,361	219,900	435,788	665,395
TOTAL.....	496,737	568,701	1,605,349	2,091,630	4,762,417
Mixedwoods type:					
Mature.....	11,321	40,708	28,267	105,975	186,271
Immature.....	436,251	446,163	813,027	705,480	2,400,921
All-aged.....	2,605	4,454	68,946	121,173	197,178
TOTAL.....	450,177	491,325	910,240	932,628	2,784,370
TOTAL ALL TYPES.....	1,011,351	1,120,612	2,798,189	3,227,638	8,157,790



TABLE 12.—Cubic-foot volumes of primary growing stock on productive forest land in Southern Agricultural Ontario by species and ownership groups in two size classes.

Species	Crown land			Patented land			Total all lands
	4''-9'' d.b.h.	10'' up d.b.h.	Total	4''-9'' d.b.h.	10'' up d.b.h.	Total	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	
White pine.....	38,522	154,329	192,851	63,405	239,723	303,128	495,979
Red pine.....	5,658	12,602	18,260	8,142	17,031	25,173	43,433
Jack pine.....	326	58	384	609	53	662	1,046
Pitch pine.....	10	13	23	80	119	199	222
White spruce.....	26,540	39,948	66,488	43,793	60,397	104,190	170,678
Black spruce.....	4,461	2,861	7,322	8,289	4,033	12,322	19,644
Balsam fir.....	87,226	20,039	107,265	142,830	29,271	172,101	279,366
Hemlock.....	22,601	55,612	78,213	60,959	124,775	185,734	263,947
White cedar.....	87,532	43,120	130,652	350,697	131,288	481,985	612,637
Red cedar.....	12	2	14	1,626	543	2,169	2,183
Larch.....	2,690	1,166	3,856	16,128	5,301	21,429	25,285
TOTAL CONIFERS.....	275,578	329,750	605,328	696,558	612,534	1,309,092	1,914,420
Sugar maple.....	181,641	258,351	439,992	488,502	659,073	1,147,575	1,587,567
Soft maple.....	46,202	23,419	69,621	205,331	245,314	450,645	520,266
Yellow birch.....	27,025	63,770	90,795	72,281	114,714	186,995	277,790
Beech.....	22,551	49,913	72,464	67,570	188,869	256,439	328,903
Elm.....	41,754	71,520	113,274	267,570	569,136	836,706	949,980
Ironwood.....	31,409	3,281	34,690	67,060	7,559	74,619	109,309
Red oak.....	46,366	48,184	94,550	88,443	116,048	204,491	299,041
White oak.....	1,174	1,207	2,381	20,663	33,178	53,841	56,222
White birch.....	83,549	33,519	117,068	175,170	64,722	239,892	356,960
Poplar.....	177,406	157,205	334,611	373,329	303,623	676,952	1,011,563
Ash.....	48,903	30,290	79,193	162,794	120,746	283,540	362,733
Basswood.....	21,903	48,208	70,111	63,635	157,633	221,268	291,379
Black cherry.....	5,318	1,620	6,938	24,092	15,811	39,903	46,841
Butternut.....	34	68	102	1,354	3,533	4,887	4,989
Hickory.....	538	307	845	23,837	15,035	38,872	39,717
Other hardwoods.....	.....	.....	.....	.....	110	110	110
TOTAL HARDWOODS.....	735,773	790,862	1,526,635	2,101,631	2,615,104	4,716,735	6,243,370
TOTAL ALL SPECIES.....	1,011,351	1,120,612	2,131,963	2,798,189	3,227,638	6,025,827	8,157,790

TABLE 13.—Cubic-foot volumes of primary growing stock on Crown land in Southern Agricultural Ontario by species and age classes in two size classes.

Species	Mature		Immature		All-aged		Total Crown land
	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
White pine.....	699	4,063	37,504	148,956	319	1,310	192,851
Red pine.....	73	.....	5,571	12,567	14	35	18,260
Jack pine.....	216	57	110	1	.....	.....	384
Pitch pine.....	.....	.....	7	9	3	4	23
White spruce.....	1,366	1,364	25,162	38,550	12	34	66,488
Black spruce.....	619	990	3,842	1,871	.....	.....	7,322
Balsam fir.....	2,858	1,044	84,205	18,988	163	7	107,265
Hemlock.....	2,978	19,316	19,231	35,671	392	625	78,213
White cedar . .	2,092	3,990	85,155	38,982	285	148	130,652
Red cedar . . .	2	1	9	1	1	.....	14
Larch . . . . .	30	1	2,650	1,159	10	6	3,856
TOTAL CONIFERS . . . . .	10,933	30,826	263,446	296,755	1,199	2,169	605,328
Sugar maple.....	23,883	99,943	156,824	157,070	934	1,338	439,992
Soft maple.....	1,808	3,113	43,647	19,144	747	1,162	69,621
Yellow birch.....	3,219	21,948	23,647	41,641	159	181	90,795
Beech.....	5,954	21,913	16,420	27,509	177	491	72,464
Elm.....	2,099	13,974	38,891	55,376	764	2,170	113,274
Ironwood.....	3,108	671	28,178	2,597	123	13	34,690
Red oak.....	744	3,255	45,274	44,055	348	874	94,550
White oak.....	155	399	799	490	220	318	2,381
White birch.....	1,624	2,083	81,702	31,298	223	138	117,068
Poplar.....	2,657	7,240	174,396	149,085	353	880	334,611
Ash.....	3,772	5,898	44,738	24,007	393	385	79,193
Basswood.....	2,046	15,857	19,668	31,801	189	550	70,111
Black cherry.....	524	489	4,750	1,072	44	59	6,938
Butternut.....	1	7	26	39	7	22	102
Hickory.....	91	106	376	136	71	65	845
TOTAL HARDWOODS.....	51,685	196,896	679,336	585,320	4,752	8,646	1,526,635
TOTAL ALL SPECIES.....	62,618	227,722	942,782	882,075	5,951	10,815	2,131,963



TABLE 14.—Cubic-foot volumes of primary growing stock on patented land in Southern Agricultural Ontario by species and age classes in two size classes.

Species	Mature		Immature		All-aged		Total patented land
	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
White pine.....	1,612	14,863	57,624	208,015	4,169	16,845	303,128
Red pine.....	75	21	7,679	16,301	388	709	25,173
Jack pine.....	94	24	515	29	.....	.....	662
Pitch pine.....	.....	.....	54	76	26	43	199
White spruce.....	1,774	2,406	41,293	56,396	726	1,595	104,190
Black spruce.....	690	1,068	7,585	2,956	14	9	12,322
Balsam fir.....	3,882	1,415	136,892	27,411	2,056	445	172,101
Hemlock.....	7,756	37,021	44,966	71,561	8,237	16,193	185,734
White cedar.....	14,311	16,336	317,709	104,605	18,677	10,347	481,985
Red cedar.....	470	284	1,051	196	105	63	2,169
Larch.....	163	103	15,356	4,819	609	379	21,429
TOTAL CONIFERS.....	30,827	73,541	630,724	492,365	35,007	46,628	1,309,092
Sugar maple.....	59,398	265,571	361,904	290,614	67,200	102,888	1,147,575
Soft maple.....	16,376	88,639	151,138	85,928	37,817	70,747	450,645
Yellow birch.....	7,631	31,783	56,190	73,549	8,460	9,382	186,995
Beech.....	13,247	89,034	43,131	65,133	11,192	34,702	256,439
Elm.....	26,567	169,446	186,823	241,688	54,180	158,002	836,706
Ironwood.....	6,954	1,943	53,167	4,602	6,939	1,014	74,619
Red oak.....	1,806	14,121	80,419	78,774	6,218	23,153	204,491
White oak.....	2,210	9,463	11,932	10,448	6,521	13,267	53,841
White birch.....	2,771	3,773	167,175	56,202	5,224	4,747	239,892
Poplar.....	5,228	14,769	357,470	268,034	10,631	20,820	676,952
Ash.....	13,974	30,269	126,274	61,015	22,546	29,462	283,540
Basswood.....	6,102	50,280	49,904	77,268	7,629	30,085	221,268
Black cherry.....	1,881	3,425	18,948	7,382	3,263	5,004	39,903
Butternut.....	114	864	727	1,029	513	1,640	4,887
Hickory.....	2,960	3,827	15,371	5,788	5,506	5,420	38,872
Other hardwoods.....	.....	110	.....	.....	.....	.....	110
TOTAL HARDWOODS.....	167,219	777,317	1,680,573	1,327,454	253,839	510,333	4,716,735
TOTAL ALL SPECIES.....	198,046	850,858	2,311,297	1,819,819	288,846	556,961	6,025,827

TABLE 15.—Cubic-foot volumes of the annual allowable cut on productive forest land in Southern Agricultural Ontario by species and ownership groups.

Species	Crown land	Patented land	Total
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
White pine.....	128	6,315	6,443
Red pine.....	3	787	790
Jack pine.....	12	31	43
Pitch pine.....	.....	6	6
White spruce.....	86	3,256	3,342
Black spruce.....	40	257	297
Balsam fir.....	137	5,378	5,515
Hemlock.....	224	2,322	2,546
White cedar.....	98	9,078	9,176
Larch.....	2	535	537
<b>TOTAL CONIFERS.....</b>	<b>730</b>	<b>27,965</b>	<b>28,695</b>
Sugar maple.....	1,870	21,517	23,387
Soft maple.....	237	21,053	21,290
Yellow birch.....	507	2,922	3,429
Beech.....	420	3,205	3,625
Elm.....	338	15,688	16,026
Ironwood.....	116	1,399	1,515
Red oak.....	63	3,834	3,897
White oak.....	6	673	679
White birch.....	148	7,497	7,645
Poplar.....	636	42,309	42,945
Ash.....	298	5,317	5,615
Basswood.....	604	6,915	7,519
Black cherry.....	31	748	779
Butternut.....	.....	92	92
Hickory.....	6	729	735
Other hardwoods.....	.....	2	2
<b>TOTAL HARDWOODS.....</b>	<b>5,280</b>	<b>133,900</b>	<b>139,180</b>
<b>TOTAL ALL SPECIES.....</b>	<b>6,010</b>	<b>161,865</b>	<b>167,875</b>



Forest nurseries provide millions of trees annually for use in reforestation programmes.

TABLE 16.—Comparison of allowable cut with actual utilization on Crown land in Southern Agricultural Ontario by species.

Species	Allowable cut	Actual cut
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
Pine, white and red.....	131	3,244
Pine, jack.....	12	.....
Spruce, white and black.....	126	1,080
Balsam fir.....	137	183
Hemlock.....	224	3,470
Other conifers.....	100	104
<b>TOTAL CONIFERS.....</b>	<b>730</b>	<b>8,081</b>
Maple, sugar.....	1,870	617
Birch, yellow and white.....	655	971
Poplar.....	636	1,319
Ash.....	298	38
Basswood.....	604	535
Other hardwoods.....	1,217	368
<b>TOTAL HARDWOODS.....</b>	<b>5,280</b>	<b>3,848</b>
<b>TOTAL ALL SPECIES.....</b>	<b>6,010</b>	<b>11,929</b>

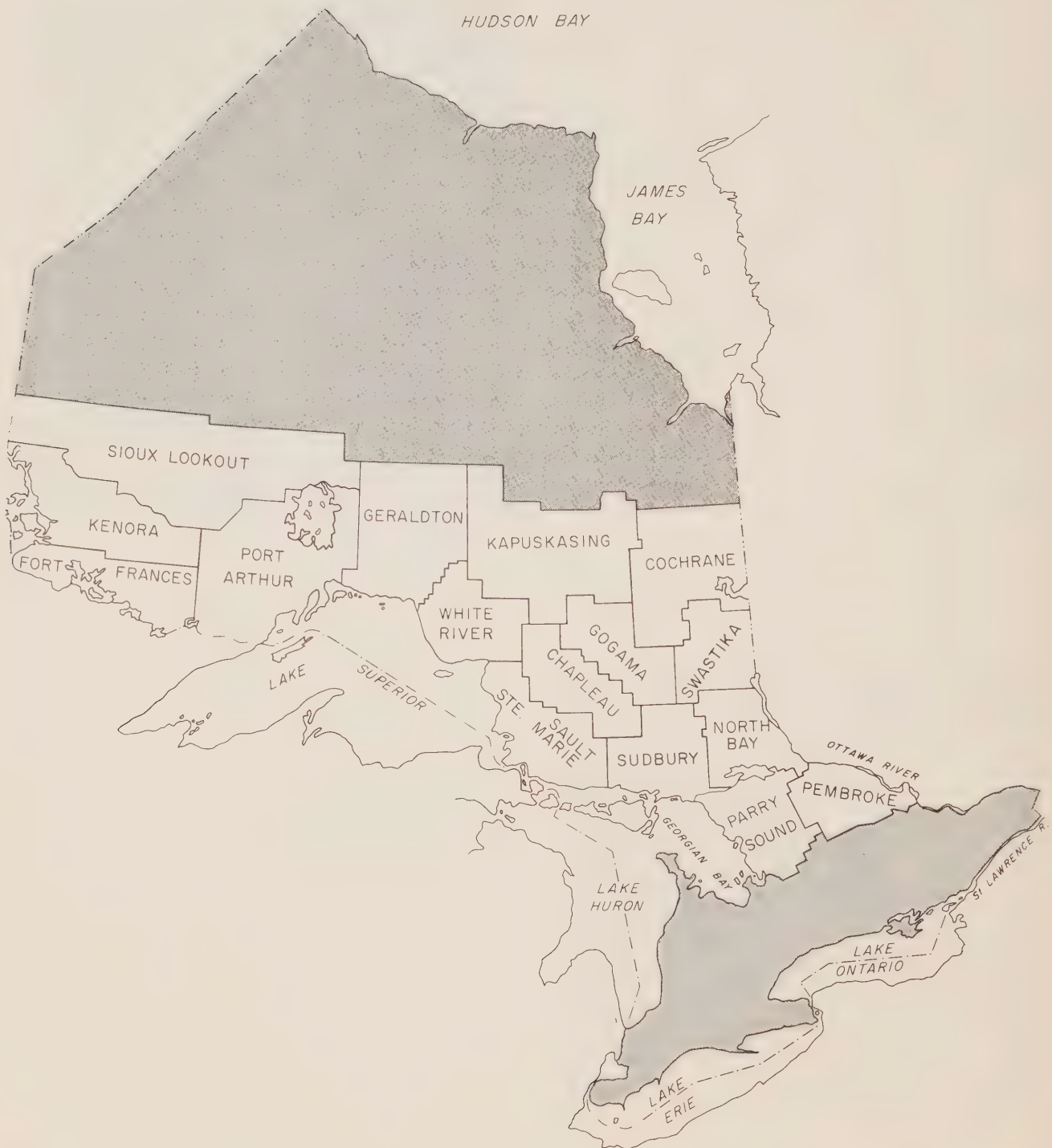


Stand of young red pine in Orr Lake Forest.



# APPENDIX B

## EXPLOITABLE FOREST AREA



## **EXPLOITABLE FOREST AREA**

The summary tables for the Exploitable Forest Area cover all or parts of sixteen administrative districts of the Department of Lands and Forests as they existed at the time of the forest inventory.

More detailed information on each individual district is contained in the following Forest Resources Inventory reports:

Report No. 1 of the North Bay District

Report No. 2 of the Timiskaming (Swastika)  
District

Report No. 3 of the Cochrane District

Report No. 4 of the Kapuskasing District

Report No. 5 of the Geraldton District

Report No. 6 of the Port Arthur District

Report No. 7 of the Algonquin (Pembroke) District

Report No. 8 of the Parry Sound District

Report No. 9 of the White River District

Report No. 10 of the Sudbury District

Report No. 11 of the Sault Ste. Marie District

Report No. 12 of the Chapleau District

Report No. 13 of the Gogama District

Report No. 14 of the Fort Frances District

Report No. 15 of the Kenora District

Report No. 16 of the Sioux Lookout District



TABLE 17.—*Total area classification of the Exploitable Forest Area into broad land and ownership groups.*

Land classification	Crown land	Patented land	Total
	<i>Thousand acres</i>	<i>Thousand acres</i>	<i>Thousand acres</i>
Productive forest land <sup>1</sup> .....	70,844	6,156	77,000
Non-productive forest land <sup>2</sup>			
Treed muskeg.....	3,417	199	3,616
Open muskeg.....	3,145	96	3,241
Brush, alder, flooded land.....	1,557	407	1,964
Rock.....	262	41	303
Barrens.....	141	19	160
TOTAL.....	8,522	762	9,284
TOTAL FORESTED LAND.....	79,366	6,918	86,284
Non-forested land <sup>3</sup>			
Developed agricultural land.....	76	1,278	1,354
Grass and meadow.....	53	133	186
Burn — non-reproducing.....	119	26	145
Unclassified land <sup>4</sup> .....	427	190	617
TOTAL.....	675	1,627	2,302
TOTAL LAND AREA.....	80,041	8,545	88,586
Water.....	27,762	.....	27,762
TOTAL AREA.....	107,803	8,545	116,348

<sup>1</sup> Land bearing or capable of bearing timber of a commercial character and not withdrawn from such use.

<sup>2</sup> Lands which appear to be permanently out of the commercial timber-producing class, owing to very low productivity.

<sup>3</sup> Productive forest lands permanently withdrawn from timber production use.

<sup>4</sup> Lands occupied by settlements, roads, railroads, power-lines, gravel-pits, etc.



*Wood is scaled prior to its removal from Crown land.*

TABLE 18.—*Classification of productive forest land in the Exploitable Forest Area into cover types and age classes.*

Cover type and age class	Crown land		Patented land		Total	
	<i>Thousand acres</i>	<i>per cent</i>	<i>Thousand acres</i>	<i>per cent</i>	<i>Thousand acres</i>	<i>per cent</i>
Coniferous type:						
Mature.....	16,794	24	769	12	17,563	23
Immature.....	10,836	15	426	7	11,262	15
Young growth.....	3,437	5	92	2	3,529	4
TOTAL.....	31,067	44	1,287	21	32,354	42
Hardwood type:						
Mature.....	2,511	3	373	6	2,884	4
Immature.....	3,570	5	1,150	19	4,720	6
Young growth.....	1,854	3	549	9	2,403	3
TOTAL.....	7,935	11	2,072	34	10,007	13
Mixedwoods type:						
Mature.....	12,582	18	744	12	13,326	17
Immature.....	11,289	16	1,226	20	12,515	16
Young growth.....	3,291	4	436	7	3,727	5
TOTAL.....	27,162	38	2,406	39	29,568	38
Reproducing forest.....	4,680	7	391	6	5,071	7
TOTAL PRODUCTIVE FOREST.....	70,844	100	6,156	100	77,000	100

TABLE 19.—*Cubic-foot volumes of primary growing stock on productive forest land in the Exploitable Forest Area by cover type and age class in two size classes.*

Cover type and age class	Crown land		Patented land		Total all lands
	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
Coniferous type:					
Mature.....	21,866,103	10,452,021	1,284,812	516,239	34,119,175
Immature.....	13,264,145	2,684,401	502,163	203,013	16,653,722
TOTAL.....	35,130,248	13,136,422	1,786,975	719,252	50,772,897
Hardwood type:					
Mature.....	2,412,995	5,133,056	286,477	669,014	8,501,542
Immature.....	3,776,484	2,173,661	994,502	920,094	7,864,741
TOTAL.....	6,189,479	7,306,717	1,280,979	1,589,108	16,366,283
Mixedwoods type:					
Mature.....	12,818,227	17,398,443	752,111	1,398,848	32,367,629
Immature.....	12,335,088	6,392,389	1,190,277	881,636	20,799,390
TOTAL.....	25,153,315	23,790,832	1,942,388	2,280,484	53,167,019
TOTAL ALL TYPES.....	66,473,042	44,233,971	5,010,342	4,588,844	120,306,199

TABLE 20.—Cubic-foot volumes of primary growing stock on productive forest land in the Exploitable Forest Area by species and ownership groups in two size classes.

Species	Crown land			Patented land			Total all lands
	4''-9'' d.b.h.	10'' up d.b.h.	Total	4''-9'' d.b.h.	10'' up d.b.h.	Total	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.	
White pine.....	547,816	2,487,153	3,034,969	110,141	255,664	365,805	3,400,774
Red pine.....	219,886	776,696	996,582	28,573	52,853	81,426	1,078,008
Jack pine.....	10,785,249	5,777,421	16,562,670	354,629	211,818	566,447	17,129,117
White spruce.....	2,469,963	4,198,449	6,668,412	176,109	283,627	459,736	7,128,148
Black spruce.....	25,065,944	4,373,957	29,439,901	1,352,555	206,295	1,558,850	30,998,751
Balsam fir.....	5,951,452	1,529,764	7,481,216	482,239	106,179	588,418	8,069,634
Hemlock.....	202,216	694,769	896,985	63,969	184,718	248,687	1,145,672
White cedar.....	855,154	1,296,877	2,152,031	101,238	128,912	230,150	2,382,181
Larch.....	84,816	7,416	92,232	15,481	2,067	17,548	109,780
TOTAL CONIFERS.....	46,182,496	21,142,502	67,324,998	2,684,934	1,432,133	4,117,067	71,442,065
Sugar maple.....	898,413	2,777,180	3,675,593	349,336	794,122	1,143,458	4,819,051
Soft maple.....	134,939	86,153	221,092	74,070	50,407	124,477	345,569
Yellow birch.....	320,118	2,972,724	3,292,842	83,710	531,556	615,266	3,908,108
Beech.....	60,599	127,820	188,419	32,783	79,675	112,458	300,877
Elm.....	21,098	50,062	71,160	15,860	33,096	48,956	120,116
Ironwood.....	46,458	7,671	54,129	27,432	3,783	31,215	85,344
Red oak.....	62,660	47,666	110,326	31,327	28,161	59,488	169,814
White birch.....	8,010,843	5,401,698	13,412,541	611,808	333,915	945,723	14,358,264
Poplar.....	10,605,338	11,480,232	22,085,570	1,036,653	1,239,036	2,275,689	24,361,259
Ash.....	99,324	85,790	185,114	40,271	31,653	71,924	257,038
Basswood.....	9,298	47,461	56,759	8,121	25,747	33,868	90,627
Black cherry.....	16,548	6,257	22,805	13,923	4,949	18,872	41,677
Other hardwoods.....	4,910	755	5,665	114	611	725	6,390
TOTAL HARDWOODS.....	20,290,546	23,091,469	43,382,015	2,325,408	3,156,711	5,482,119	48,864,134
TOTAL ALL SPECIES.....	66,473,042	44,233,971	110,707,013	5,010,342	4,588,844	9,599,186	120,306,199



TABLE 21.—Cubic-foot volumes of primary growing stock on Crown land in the Exploitable Forest Area by species and age classes in two size classes.

Species	Mature		Immature		Total Crown land
	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	
	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.
White pine.....	75,600	1,640,649	472,216	846,504	3,034,969
Red pine.....	40,722	468,153	179,164	308,543	996,582
Jack pine.....	4,441,546	4,192,104	6,343,703	1,585,317	16,562,670
White spruce.....	1,597,840	3,453,141	872,123	745,308	6,668,412
Black spruce.....	16,864,777	3,539,707	8,201,167	834,250	29,439,901
Balsam fir.....	4,163,070	1,202,157	1,788,382	327,607	7,481,216
Hemlock.....	72,423	445,725	129,793	249,044	896,985
White cedar.....	517,104	953,387	338,050	343,490	2,152,031
Larch.....	21,581	4,284	63,235	3,132	92,232
<b>TOTAL CONIFERS.....</b>	<b>27,794,663</b>	<b>15,899,307</b>	<b>18,387,833</b>	<b>5,243,195</b>	<b>67,324,998</b>
Sugar maple.....	477,179	2,039,906	421,234	737,274	3,675,593
Soft maple.....	25,283	31,920	109,656	54,233	221,092
Yellow birch.....	180,456	2,371,543	139,662	601,181	3,292,842
Beech.....	26,368	57,687	34,231	70,133	188,419
Elm.....	3,564	20,658	17,534	29,404	71,160
Ironwood.....	14,387	4,122	32,071	3,549	54,129
Red oak.....	2,361	11,790	60,299	35,876	110,326
White birch.....	4,289,050	3,787,971	3,721,793	1,613,727	13,412,541
Poplar.....	4,250,958	8,702,809	6,354,380	2,777,423	22,085,570
Ash.....	26,906	27,829	72,418	57,961	185,114
Basswood.....	2,256	25,712	7,042	21,749	56,759
Black cherry.....	1,228	1,577	15,320	4,680	22,805
Other hardwoods..	2,666	689	2,244	66	5,665
<b>TOTAL HARDWOODS.....</b>	<b>9,302,662</b>	<b>17,084,213</b>	<b>10,987,884</b>	<b>6,007,256</b>	<b>43,382,015</b>
<b>TOTAL ALL SPECIES.....</b>	<b>37,097,325</b>	<b>32,983,520</b>	<b>29,375,717</b>	<b>11,250,451</b>	<b>110,707,013</b>

TABLE 22.—Cubic-foot volumes of primary growing stock on patented land in the Exploitable Forest Area by species and age classes in two size classes.

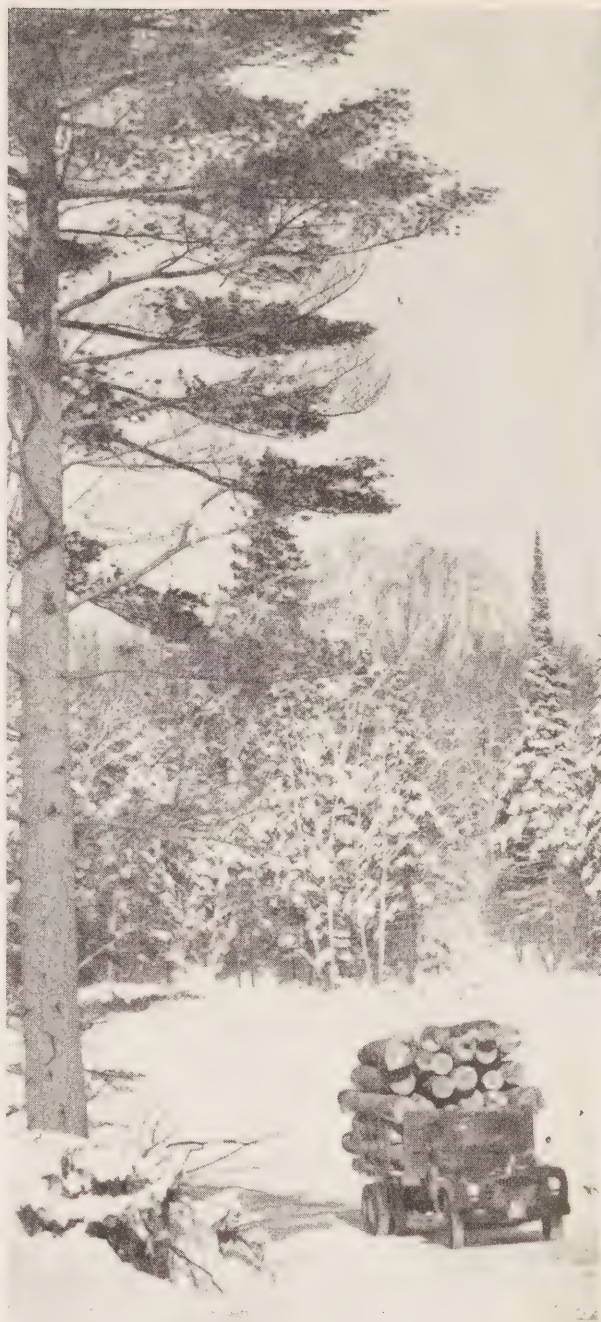
Species	Mature		Immature		Total patented land
	4''-9'' d.b.h.	10'' up d.b.h.	4''-9'' d.b.h.	10'' up d.b.h.	
	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.	Thou- sand cu. ft.
White pine.....	2,626	55,019	107,515	200,645	365,805
Red pine.....	1,339	12,240	27,234	40,613	81,426
Jack pine.....	143,051	151,343	211,578	60,475	566,447
White spruce.....	96,045	216,319	80,064	67,308	459,736
Black spruce.....	1,091,035	182,431	261,520	23,864	1,558,850
Balsam fir.....	261,856	75,827	220,383	30,352	588,418
Hemlock.....	8,157	61,364	55,812	123,354	248,687
White cedar.....	41,616	82,662	59,622	46,250	230,150
Larch.....	6,513	1,430	8,968	637	17,548
<b>TOTAL CONIFERS.....</b>	<b>1,652,238</b>	<b>838,635</b>	<b>1,032,696</b>	<b>593,498</b>	<b>4,117,067</b>
Sugar maple.....	60,920	289,919	288,416	504,203	1,143,458
Soft maple.....	6,122	8,301	67,948	42,106	124,477
Yellow birch.....	16,098	280,190	67,612	251,366	615,266
Beech.....	3,991	10,008	28,792	69,667	112,458
Elm.....	1,420	7,478	14,440	25,618	48,956
Ironwood.....	2,936	890	24,496	2,893	31,215
Red oak.....	741	4,528	30,586	23,633	59,488
White birch.....	235,577	202,755	376,231	131,160	945,723
Poplar.....	336,767	930,250	699,886	308,786	2,275,689
Ash.....	5,534	5,047	34,737	26,606	71,924
Basswood.....	360	4,740	7,761	21,007	33,868
Black cherry.....	584	750	13,339	4,199	18,872
Other hardwoods..	112	601	2	10	725
<b>TOTAL HARDWOODS.....</b>	<b>671,162</b>	<b>1,745,457</b>	<b>1,654,246</b>	<b>1,411,254</b>	<b>5,482,119</b>
<b>TOTAL ALL SPECIES.....</b>	<b>2,323,400</b>	<b>2,584,092</b>	<b>2,686,942</b>	<b>2,004,752</b>	<b>9,599,186</b>

TABLE 23.—Cubic-foot volumes of the annual allowable cut on productive forest land in the Exploitable Forest Area by species and ownership groups.

Species	Crown land	Patented land	Total
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
White pine.....	32,126	7,422	39,548
Red pine.....	13,868	2,430	16,298
Jack pine.....	332,903	16,301	349,204
White spruce.....	93,680	9,454	103,134
Black spruce.....	344,768	21,686	366,454
Balsam fir.....	116,803	14,534	131,337
Hemlock.....	4,806	3,109	7,915
White cedar.....	15,568	3,609	19,177
Larch.....	1,226	313	1,539
TOTAL CONIFERS.....	955,748	78,858	1,034,606
Sugar maple.....	28,606	21,440	50,046
Soft maple.....	1,488	5,771	7,259
Yellow birch.....	37,351	9,613	46,964
Beech.....	1,267	1,406	2,673
Elm.....	337	918	1,255
Ironwood.....	457	585	1,042
Red oak.....	87	1,115	1,202
White birch.....	228,482	24,367	252,849
Poplar.....	600,642	98,489	699,131
Ash.....	1,475	1,321	2,796
Basswood.....	886	1,058	1,944
Black cherry.....	84	354	438
Other hardwoods.....	1,720	89	1,809
TOTAL HARDWOODS.....	902,882	166,526	1,069,408
TOTAL ALL SPECIES.....	1,858,630	245,384	2,104,014

TABLE 24.—Comparison of allowable cut with actual utilization on Crown land in the Exploitable Forest Area by species.

Species	Allowable cut	Actual cut
	<i>Thousand cu. ft.</i>	<i>Thousand cu. ft.</i>
Pine, white and red.....	45,994	67,303
Pine, jack.....	332,903	99,245
Spruce, white and black.....	438,448	228,512
Balsam fir.....	116,803	22,938
Hemlock.....	4,806	11,451
Other conifers.....	16,794	333
TOTAL CONIFERS.....	955,748	429,782
Maple, sugar.....	28,606	5,024
Birch, yellow and white.....	265,833	10,291
Poplar.....	600,642	25,663
Basswood.....	886	421
Other hardwoods.....	6,915	843
TOTAL HARDWOODS.....	902,882	42,242
TOTAL ALL SPECIES.....	1,858,630	472,024

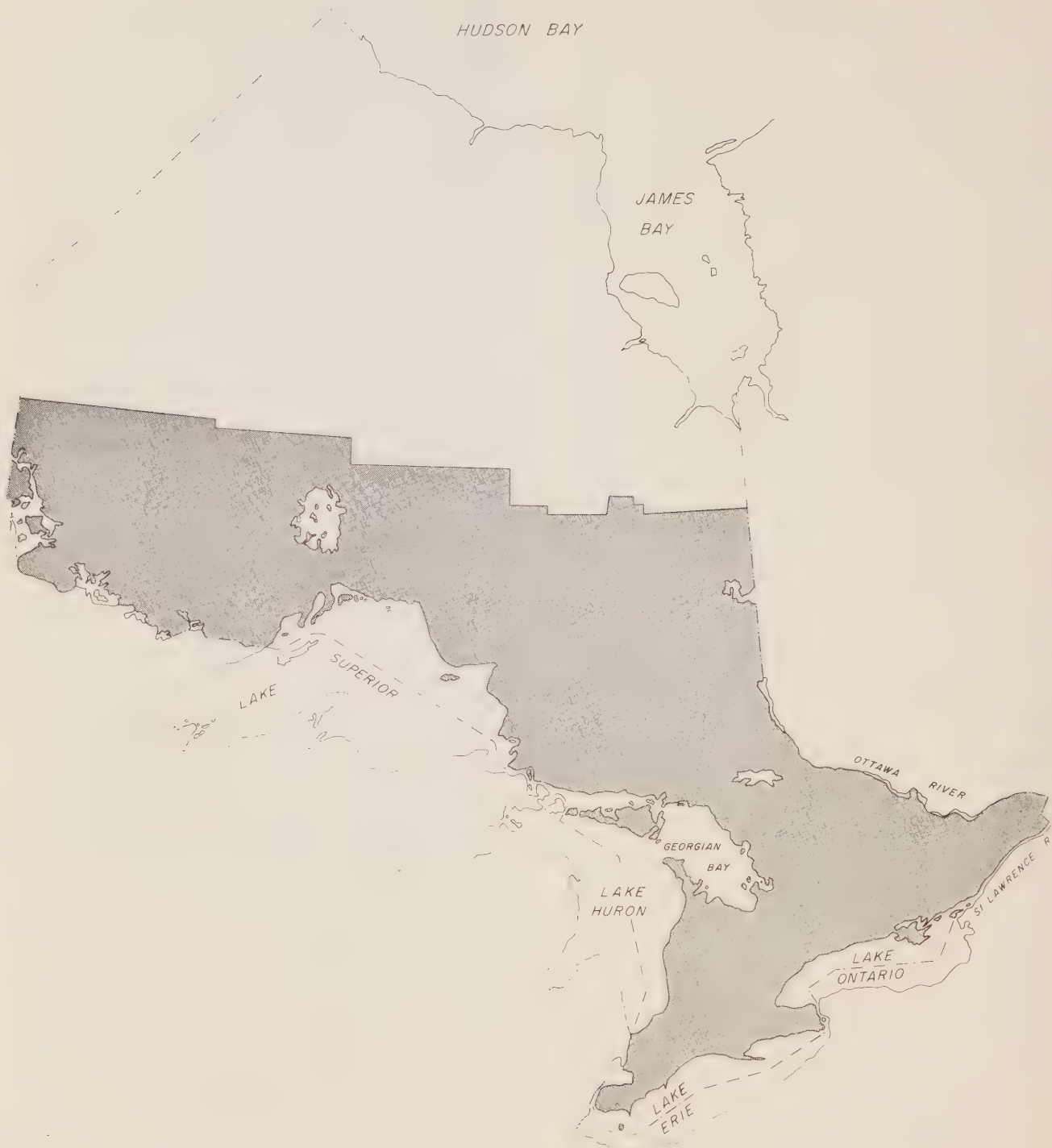


Logs are transported over an extensive road network to the mill.



# APPENDIX C

## POTENTIALLY EXPLOITABLE FOREST AREA



## POTENTIALLY EXPLOITABLE FOREST AREA

The summary tables for the Potentially Exploitable Forest Area contain information covering the most northern portions of Ontario. These include data, that has not been previously published, for 9 million acres covered by the forest survey, as well as a summary of the information reported in detail in Forest Resources Inventory Report No. 23.

The area tables include an estimated area classification for the northern part of Ontario which was not covered by the forest inventory. No estimate of the area of productive forest land or the volume of timber has been made for this area.

TABLE 25.—*Total area classification of Potentially Exploitable Forest Area<sup>1</sup> into broad land groups.*

Land classification	Area covered by forest resources inventory	Area not covered by forest resources inventory <sup>2</sup>	Total
	Thousand acres	Thousand acres	Thousand acres
Productive forest land.....	22,469	.....	22,469
Non-productive forest land			
Stagnant stands.....	5,033	13,036	18,069
Treed muskeg.....	10,449	27,028	37,477
Open muskeg.....	1,185	3,050	4,235
Brush, alder, flooded land.....	509	1,316	1,825
Rock.....	1,558	4,066	5,624
Bogs.....	4,365	11,301	15,666
TOTAL.....	23,099	59,797	82,896
TOTAL FORESTED LAND.....	45,568	59,797	105,365
Non-forested land			
Burn — non-reproducing.....	443	1,220	1,663
Unclassified land.....	7	.....	7
TOTAL.....	450	1,220	1,670
TOTAL LAND AREA.....	46,018	61,017	107,035
Water.....	4,032	4,959	8,991
TOTAL AREA.....	50,050	65,976	116,026

<sup>1</sup> The Potentially Exploitable Forest Area is all classified as Crown land.

<sup>2</sup> For the area not covered by the forest resources inventory, the land classification was estimated, but no productive forest land was shown, although small areas are known to occur.

TABLE 26.—*Classification of productive forest land in the Potentially Exploitable Forest Area into cover types and height classes.*

Cover type and height class	Crown land	
	Thousand acres	per cent
Coniferous type:		
91 feet and up.....	1	*
71 feet to 90 feet.....	28	*
51 feet to 70 feet.....	1,656	8
31 feet to 50 feet.....	9,375	41
30 feet and under.....	4,501	20
TOTAL.....	15,561	69
Hardwood type:		
71 feet to 90 feet.....	17	*
51 feet to 70 feet.....	100	*
31 feet to 50 feet.....	81	*
30 feet and under.....	42	*
TOTAL.....	240	1
Mixedwoods type:		
71 feet to 90 feet.....	94	*
51 feet to 70 feet.....	799	4
31 feet to 50 feet.....	1,591	7
30 feet and under.....	1,320	6
TOTAL.....	3,804	17
Reproducing forest.....	2,864	13
TOTAL PRODUCTIVE FOREST.....	22,469	100

\* Less than one per cent.



TABLE 27.—Cubic-foot volumes of primary growing stock on productive forest land in the Potentially Exploitable Forest Area by cover types and height classes in two size classes.

Cover type and height class	Crown land		Total all lands
	4''-9'' d.b.h.	10'' up d.b.h.	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
Coniferous type:			
91 feet and up.....	779	4,502	5,281
71 feet to 90 feet.....	29,817	102,829	132,646
51 feet to 70 feet.....	3,398,443	1,122,884	4,521,327
31 feet to 50 feet.....	10,864,912	700,732	11,565,644
TOTAL.....	14,293,951	1,930,947	16,224,898
Hardwood type:			
71 feet to 90 feet.....	31,727	38,385	70,112
51 feet to 70 feet.....	177,536	62,849	240,385
31 feet to 50 feet.....	107,534	12,553	120,087
TOTAL.....	316,797	113,787	430,584
Mixedwoods type:			
91 feet and up.....	14	30	44
71 feet to 90 feet.....	122,221	332,109	454,330
51 feet to 70 feet.....	1,407,383	1,102,256	2,509,639
31 feet to 50 feet.....	2,286,566	313,407	2,599,973
TOTAL.....	3,816,184	1,747,802	5,563,986
TOTAL ALL TYPES.....	18,426,932	3,792,536	22,219,468

TABLE 28.—Cubic-foot volumes of primary growing stock on productive forest land in the Potentially Exploitable Forest Area by species in two size classes.

Species	Crown land		Total
	4''-9'' d.b.h.	10'' up d.b.h.	
	Thousand cu. ft.	Thousand cu. ft.	Thousand cu. ft.
Jack pine.....	2,497,149	497,249	2,994,398
White spruce.....	127,845	472,343	600,188
Black spruce.....	12,178,121	1,068,948	13,247,069
Balsam fir.....	884,952	190,503	1,075,455
White cedar.....	18,527	5,770	24,297
Larch.....	58,649	9,075	67,724
TOTAL CONIFERS.....	15,765,243	2,243,888	18,009,131
White birch.....	1,145,272	354,855	1,500,127
Poplar.....	1,516,417	1,193,793	2,710,210
TOTAL HARDWOODS.....	2,661,689	1,548,648	4,210,337
TOTAL ALL SPECIES.....	18,426,932	3,792,536	22,219,468

TABLE 29.—Cubic-foot volumes of the annual allowable cut on productive forest land in the Potentially Exploitable Forest Area by species.

Species	Crown land	
	Thousand cu. ft.	per cent
Jack pine.....	80,512	18
White spruce.....	11,261	2
Black spruce.....	206,985	45
Balsam fir.....	22,405	5
White cedar.....	228	*
Larch.....	1,232	*
TOTAL CONIFERS.....	322,623	70
White birch.....	34,995	8
Poplar.....	101,035	22
TOTAL HARDWOODS.....	136,030	30
TOTAL ALL SPECIES.....	458,653	100

\* Less than one per cent.

## APPENDIX D

### Survey Methods

- The forest resources inventory of Ontario has been compiled from surveys carried out by the Ontario Department of Lands and Forests and various licensees. The holder of a licence to cut timber on Crown land in Ontario is required by Statute to supply a complete inventory of the timber resources on the licensed area. Inventories of licensed areas (fig. 14) have been carried out by a variety of techniques, and the data collected have, where necessary, been amended to conform to the classification system used by the Department.

Briefly, the inventories carried out by the Ontario Department of Lands and Forests involved aerial photography, the preparation of planimetric maps or photo mosaics, field sampling, photo interpretation, drafting of forest type maps and determination of areas and volumes. The inventory began, and the survey methods were developed, in the Exploitable Forest Area. When the inventory was extended to

cover Southern Agricultural Ontario and the Potentially Exploitable Forest Area (fig. 15) certain changes in techniques and classifications were made. The summary for the Potentially Exploitable Forest Area includes an estimated area classification for the unsurveyed portion in the north. While scattered blocks of timber are known to occur in this area, no attempt has been made to estimate the area of forested land or volume of timber in these isolated patches.

Vertical aerial photographs covering 284,906 square miles were taken in the period 1946 to 1957, inclusive. For most of the area, photographs were taken from a height of 7,920 feet above mean ground level with a six-inch focal length camera to produce photographs at a scale of four inches to the mile (1/15,840). An area of 49,045 square miles, however, was photographed from a height of 15,840 feet above mean ground level with a six-inch focal length camera to produce photographs at a scale of two inches to the mile (1/31,680).



*Field parties often spend several months under canvas.*











*Part of a slotted templet laydown.*

*Hunting Survey Corp. Ltd.*

Following the photography, planimetric base maps were prepared, by the Slotted Templet Method, for all areas except Southern Agricultural Ontario, where semi-controlled photo maps were made (fig. 16). A photo map, or aerial mosaic, is an assembly of individual aerial photographs fitted together systematically to form a composite view of the entire area covered by the photographs.

Interpretation of forest types was carried out on stereoscopic pairs of photographs, and the data were then transferred to the appropriate planimetric map or mosaic. In each case the forest data were drafted on a linen overlay, and the ozalid prints of this comprise the forest type maps of this area.

Sampling was carried out by field crews who collected all the data necessary for making volume estimates. Volume estimates were prepared for type aggregates, based primarily on three broad cover types: coniferous, hardwood, and mixedwoods.

For the Exploitable Forest Area stands were classi-

fied into two age-classes, mature and immature; while in Southern Agricultural Ontario an additional classification—all-aged—was added. The volume per acre of each cover type for the mature and immature age-classes was then summarized from the field tallies into density classes: four for the Exploitable Forest Area and three for Southern Agricultural Ontario. The all-aged stands were not separated by density classes.

Since the Potentially Exploitable Forest Area is remote and access to certain areas is difficult, ground sampling in this area was reduced and greater dependence was placed upon photo interpretation. Owing to the difficulty of estimating stand age, particularly on the 40-chain photographs, age was not used in stand stratification. In its place height, which can be measured and estimated with considerable accuracy on aerial photographs, was the variable used in stand classification. Thus in this area, the cover types were separated into four 20-foot height classes and four density classes, for each of which volume estimates were made.

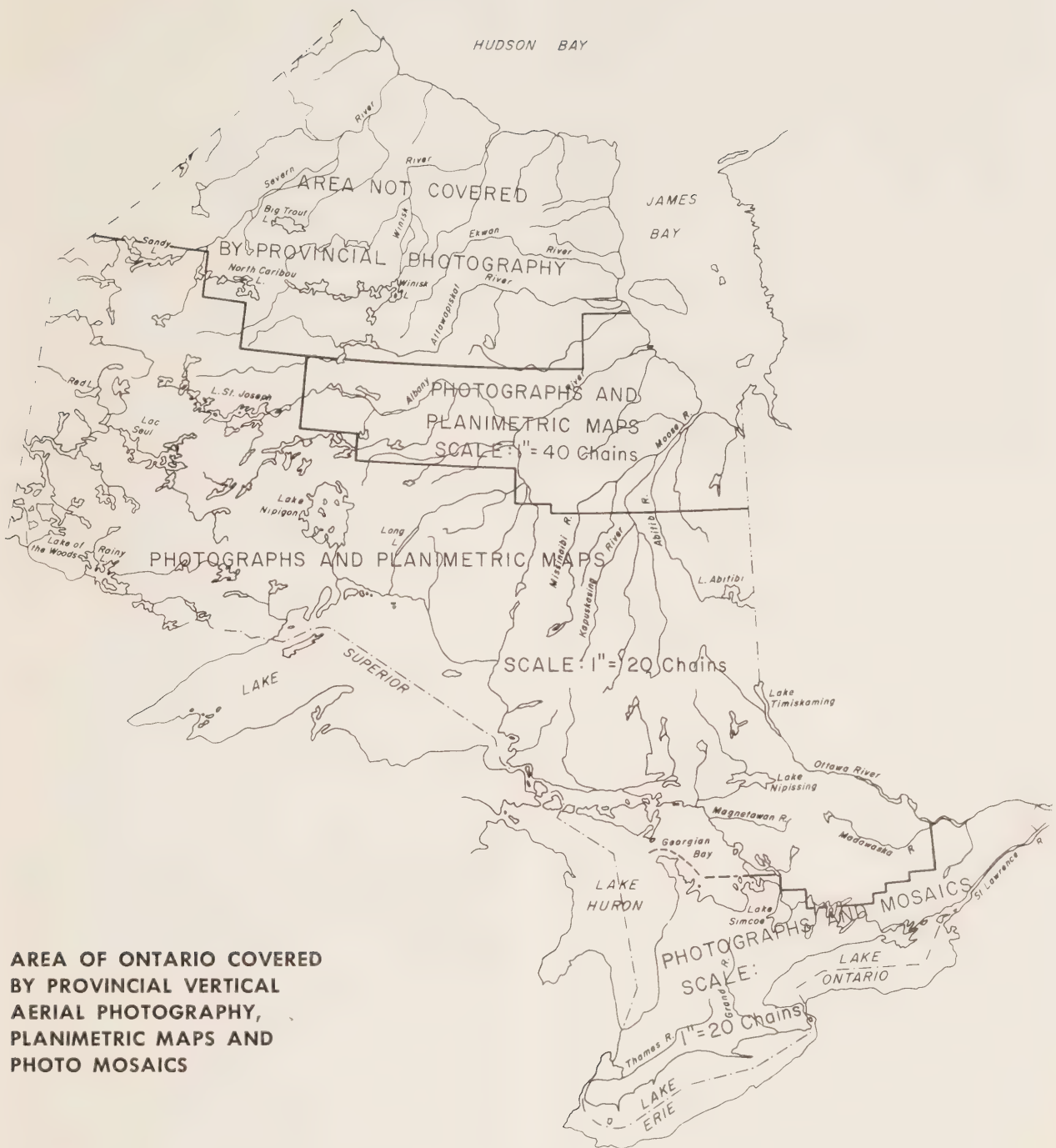
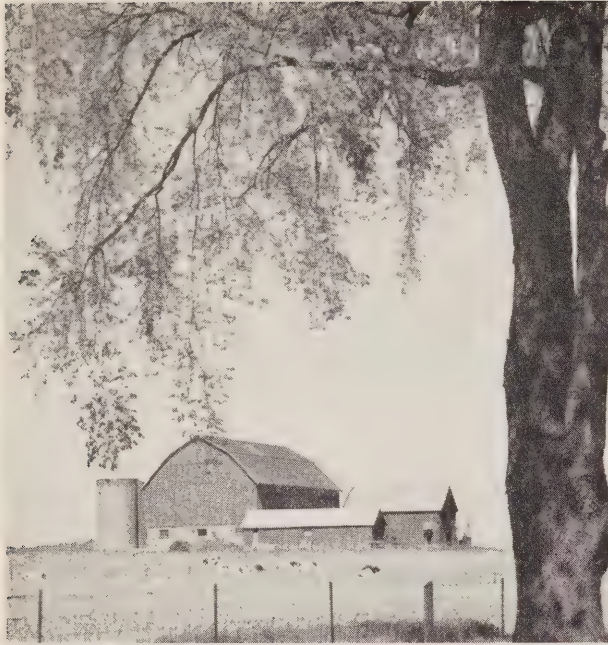


FIGURE 16





*A rural scene in Southern Agricultural Ontario.*

In all areas surveyed by the Ontario Department of Lands and Forests, summaries were made separately by ecological sections and the year of the cruise (fig. 17). Stand and stock tables showing the per acre volumes in cubic feet by species and diameter groups were prepared from the field samples (tables 30 to 59).

### Allowable Cut

Throughout the inventory, allowable cuts were calculated for each forest district, separately, and the summary of these calculations is presented in this report. While there were some variations in the method of calculation for some reports, the "French Method of 1883"<sup>1</sup> was used throughout.

Two bases were available for calculation of the allowable cut: (1) the volume of each species by age, or height, classes, and (2) the adopted rotation ages. The compilation was carried out in such a way that the volumes were shown by species. This suggests the calculation of the allowable cut by species, separately, rather than for the total primary growing stock in the district. The method of calculation most suitable to the available data is a volumetric formula.

The "French Method of 1883" was selected because: (1) The ratio of the volume per acre of mature to immature age-class was found to be approximately

5/3 as required by this method. (2) The French method is recognized as sound enough, though not entirely free from those disadvantages normally connected with the volumetric methods of regulating yield. The method tends to build up normal growing stock, and the results of the calculations may be considered rather conservative.

Depending on the condition of the forest and the ownership of the area (Crown or patented), one of the following formulae were used:

$$(1) P = \frac{V.1.}{n/3}$$

$$(2) P = 5/8 \frac{(V.1. + V.2.)}{n/3}$$

$$(3) P = 5/8 \frac{(V.1. + V.2. + V.3.)}{n/3}$$

$$(4) P = \frac{5/8 V.}{n/3}$$

where:

V. — denotes volume of timber in height classes A, B, C, and D.

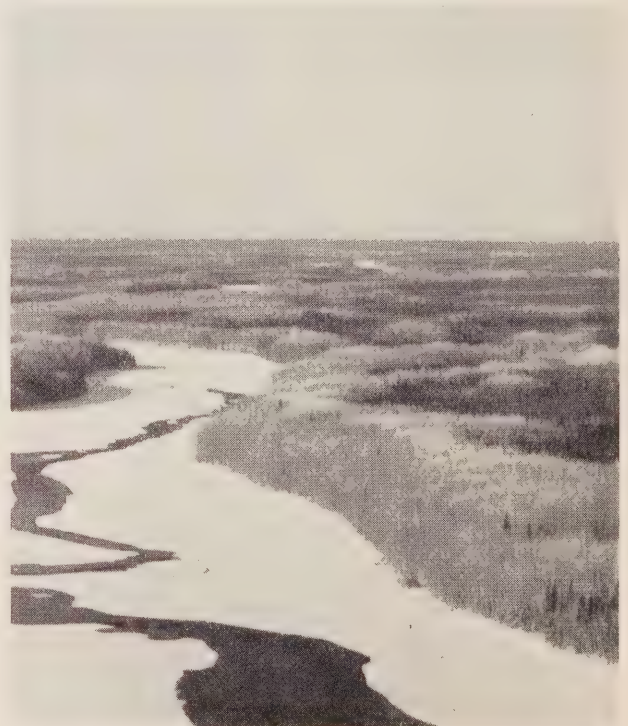
V.1. — denotes volume of mature timber (Age-Class I).

V.2. — denotes volume of immature timber (Age-Class II).

V.3. — denotes volume of mature and immature timber in all-aged stands.

n — denotes rotation.

p — denotes annual allowable cut.



*A portion of the Boreal Forest Region along the Albany River.*

<sup>1</sup> L. Pardé — *Traité pratique d'aménagement des forêts*, Paris, 1930.





TABLE 30.—Volume of the primary growing stock in cubic feet per acre.  
Algonquin Section—1947–1948

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	23.1 307.0	22.6 300.8	19.8 262.7	..... 267.8	224.0 242.6	211.1 228.7	163.9 177.5	..... .....
Red pine.....	4''-9'' 10'' up	.....	.....	.....	.....	139.0 104.8	131.0 98.9	101.7 76.7	..... .....
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	141.9 19.3	109.8 15.0	103.5 14.1	80.3 11.0	70.1 46.8
White spruce.....	4''-9'' 10'' up	19.1 93.4	18.7 91.5	16.4 79.9	.....	94.0 42.3	88.7 39.8	68.9 30.9	55.3 .....
Black spruce.....	4''-9'' 10'' up	117.5 17.6	115.1 17.2	100.6 15.0	42.1 103.0	143.6 19.6	135.3 18.5	105.1 14.3	254.1 .....
Balsam fir.....	4''-9'' 10'' up	76.1 11.4	74.6 11.1	65.2 9.7	59.5 .....	82.1 6.2	77.5 5.8	60.1 4.5	24.5 .....
Hemlock.....	4''-9'' 10'' up	181.1 771.8	177.3 756.1	154.9 660.5	.....	142.6 116.6	134.4 110.0	104.3 85.4	..... .....
White cedar.....	4''-9'' 10'' up	74.1 316.1	72.6 309.6	63.4 270.4	266.2 98.4	104.8 69.9	98.8 65.9	76.7 51.2	136.5 .....
TOTAL CONIFERS.....	4''-9'' 10'' up	491.0 1517.3	480.9 1486.3	420.3 1298.2	509.7 488.5	1039.9 617.0	980.3 581.7	761.0 451.5	540.5 46.8
Sugar maple.....	4''-9'' 10'' up	2.8 12.2	2.8 11.9	2.4 10.4	.....	.....	.....	.....	34.3 .....
Yellow birch.....	4''-9'' 10'' up	18.2 209.4	17.8 205.2	15.6 179.1	8.7 .....	6.5 31.9	6.2 30.0	4.8 23.3	..... .....
White birch.....	4''-9'' 10'' up	38.7 176.4	37.9 172.8	33.1 150.9	51.3 181.8	61.3 50.1	57.8 47.2	44.8 36.7	37.8 .....
Poplar (all).....	4''-9'' 10'' up	5.4 12.1	5.3 11.9	4.6 10.4	.....	55.0 46.8	51.8 44.1	40.2 34.3	40.6 .....
Red maple.....	4''-9'' 10'' p	12.4 5.1	12.2 5.0	10.6 4.4	.....	10.9 0.6	10.4 0.5	8.0 0.4	..... .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	77.5 415.2	76.0 406.8	66.3 355.2	60.0 181.8	133.7 129.4	126.2 121.8	97.8 94.7	112.7 .....
GRAND TOTAL.....	4''-9'' 10'' up	568.5 1932.5	556.9 1893.1	486.6 1653.4	569.7 670.3	1173.6 746.4	1106.5 703.5	858.8 546.2	653.2 46.8
TOTAL 4'' UP.....		2501.0	2450.0	2140.0	1240.0	1920.0	1810.0	1405.0	700.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	.....	.....	.....	.....	7.4 18.1	6.9 16.8	5.2 12.8	..... .....
White spruce.....	4''-9'' 10'' up	3.1 13.9	2.7 12.4	2.1 9.8	.....	10.0 10.4	9.3 9.7	7.1 7.3	..... .....
Balsam fir.....	4''-9'' 10'' up	17.7 2.7	15.7 2.4	12.4 1.9	7.8 11.8	23.2 2.3	21.6 2.1	16.4 1.6	3.4 5.2
Hemlock.....	4''-9'' 10'' up	23.7 74.9	21.0 66.4	16.6 52.4	.....	7.3 13.1	6.8 12.2	5.2 9.2	..... .....
White cedar.....	4''-9'' 10'' up	12.4 11.4	11.0 10.1	8.7 8.0	1.2 58.6	7.0 10.0	6.5 9.3	4.9 7.1	0.5 25.8
TOTAL CONIFERS.....	4''-9'' 10'' up	56.9 102.9	50.4 91.3	39.8 72.1	9.0 70.4	54.9 53.9	51.1 50.1	38.8 38.0	3.9 31.0
Sugar maple.....	4''-9'' 10'' up	269.3 1413.7	238.8 1253.6	188.5 989.5	225.3 49.5	107.9 126.7	100.5 118.0	76.2 89.4	99.0 21.7
Yellow birch.....	4''-9'' 10'' up	64.0 850.6	56.8 754.2	44.8 595.4	68.4 68.4	33.3 85.7	31.0 79.8	23.5 60.5	30.0 30.1
Beech.....	4''-9'' 10'' up	.....	.....	.....	.....	8.7 6.6	8.1 6.1	6.2 4.6	..... .....
White elm.....	4''-9'' 10'' up	8.3 83.5	7.3 74.1	5.8 58.5	.....	.....	.....	.....	.....
Hornbeam.....	4''-9'' 10'' up	22.6 4.6	20.0 4.1	15.8 3.2	.....	17.8 0.9	16.5 0.9	12.5 0.7	..... .....

TABLE 30 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Red oak.....	4''-9'' 10'' up	2.2 18.2	2.0 16.1	1.6 12.7	.....	24.9 7.4	23.2 6.9	17.6 5.2	.....
White birch.....	4''-9'' 10'' up	49.0 104.0	43.4 92.3	34.3 72.8	138.0	352.1 18.5	327.8 17.3	248.5 13.1	60.6
Poplar (all).....	4''-9'' 10'' up	68.2 132.4	60.5 117.4	47.7 92.7	377.7 46.7	546.6 145.3	509.1 135.3	385.8 102.6	165.8 20.5
Red maple.....	4''-9'' 10'' up	10.7 6.3	9.5 5.6	7.5 4.4	32.5 35.3	35.8 8.4	33.4 7.8	25.3 5.9	14.3 15.5
Black ash.....	4''-9'' 10'' up	28.5 63.3	25.2 56.2	19.9 44.4	28.8	30.3 25.8	28.2 24.0	21.4 18.2	12.6
Basswood.....	4''-9'' 10'' up	7.8 33.0	6.9 29.3	5.4 23.2	.....	3.3 5.2	3.1 4.8	2.3 3.7	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	530.6 2709.6	470.4 2402.9	371.3 1896.8	870.7 199.9	1160.7 430.5	1080.9 400.9	819.3 303.9	382.3 87.8
GRAND TOTAL.....	4''-9'' 10'' up	587.5 2812.5	520.8 2494.2	411.1 1968.9	879.7 270.3	1215.6 484.4	1132.0 451.0	858.1 341.9	386.2 118.8
TOTAL 4'' UP.....		3400.0	3015.0	2380.0	1150.0	1700.0	1583.0	1200.0	505.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	7.4 74.6	7.0 71.0	5.8 59.1	.....	149.8 64.2	141.3 60.6	116.8 50.1	97.1 158.4
Red pine.....	4''-9'' 10'' up	1.8 7.7	1.7 7.3	1.4 6.1	.....	35.5 14.5	33.5 13.7	27.7 11.3	.....
White spruce.....	4''-9'' 10'' up	29.2 87.5	27.8 83.2	23.1 69.2	.....	91.1 44.9	86.0 42.3	71.1 35.0	30.1 35.3
Black spruce.....	4''-9'' 10'' up	0.9 2.3	0.8 2.2	0.7 1.8	.....	24.6 5.4	23.2 5.1	19.2 4.2	.....
Balsam fir.....	4''-9'' 10'' up	67.3 17.9	64.0 17.0	53.2 14.2	107.4 84.3	119.0 5.0	112.3 4.7	92.8 3.9	103.7
Hemlock.....	4''-9'' 10'' up	126.0 615.4	119.9 585.3	99.7 486.6	.....	79.0 89.0	74.5 84.0	61.6 69.4	64.6
White cedar.....	4''-9'' 10'' up	59.2 152.2	56.3 144.8	46.8 120.4	24.2 148.6	57.3 64.7	54.1 61.0	44.7 50.5	41.6 21.4
TOTAL CONIFERS.....	4''-9'' 10'' up	291.8 957.6	277.5 910.8	230.7 757.4	131.6 232.9	556.3 287.7	524.9 271.4	433.9 224.4	337.1 215.1
Sugar maple.....	4''-9'' 10'' up	82.5 261.4	78.5 248.6	65.3 206.7	.....	26.3 29.7	24.8 28.0	20.5 23.2	.....
Yellow birch.....	4''-9'' 10'' up	68.9 915.5	65.5 870.9	54.5 723.8	985.5	27.7 126.3	26.2 119.1	21.6 98.5	.....
Hornbeam.....	4''-9'' 10'' up	5.9 0.4	5.6 0.4	4.7 0.3	.....	3.5 0.5	3.3 0.5	2.7 0.4	.....
Red oak.....	4''-9'' 10'' up	.....	.....	.....	.....	17.6 4.4	16.6 4.2	13.8 3.4	.....
White birch.....	4''-9'' 10'' up	43.5 212.1	41.3 201.8	34.4 167.7	.....	234.7 91.3	221.5 86.1	183.1 71.2	149.2
Poplar (all).....	4''-9'' 10'' up	57.7 128.4	54.9 122.2	45.6 101.6	.....	369.4 136.6	348.5 128.9	288.1 106.5	52.7
Red maple.....	4''-9'' 10'' up	22.1 22.1	21.0 21.0	17.5 17.4	.....	34.0 8.0	32.1 7.5	26.6 6.2	43.9
Black ash.....	4''-9'' 10'' up	31.7 28.2	30.2 26.8	25.1 22.3	.....	26.2 19.8	24.7 18.7	20.5 15.4	.....
Basswood.....	4''-9'' 10'' up	2.8 22.4	2.6 21.4	2.2 17.8	.....	.....	.....	.....	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	315.1 1590.5	299.6 1513.1	249.3 1257.6	985.5	739.4 416.6	697.7 393.0	576.9 324.8	245.8
GRAND TOTAL.....	4''-9'' 10'' up	606.9 2548.1	577.1 2423.9	480.0 2015.0	131.6 1218.4	1295.7 704.3	1222.6 664.4	1010.8 549.2	582.9 215.1
TOTAL 4'' UP.....		3155.0	3001.0	2495.0	1350.0	2000.0	1887.0	1560.0	798.0



TABLE 31.—*Volume of the primary growing stock in cubic feet per acre.  
Algonquin Section—1949*

SPECIES	D.B. H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9''	113.3	96.5	65.2	25.7	404.6	353.1	247.2	97.0
	10'' up	426.2	363.1	245.5	96.5	660.1	576.1	403.3	158.2
Red pine.....	4''-9''	99.4	84.6	57.2	22.5	230.0	200.7	140.5	55.1
	10'' up	162.1	138.1	93.4	36.7	195.9	171.0	119.7	47.0
Jack pine.....	4''-9''	164.3	140.0	94.6	37.2	132.3	115.5	80.9	31.7
	10'' up	292.2	248.9	168.3	66.2	16.4	14.3	10.0	3.9
White spruce.....	4''-9''	52.9	45.0	30.4	12.0	119.0	103.8	72.7	28.5
	10'' up	353.8	301.4	203.8	80.1	151.4	132.2	92.5	36.3
Black spruce.....	4''-9''	259.0	220.6	149.1	58.6	89.8	78.4	54.9	21.5
	10'' up	64.7	55.1	37.3	14.7	18.4	16.0	11.2	4.4
Balsam fir.....	4''-9''	102.3	87.1	58.9	23.2	270.3	236.0	165.1	64.8
	10'' up	80.3	68.4	46.3	18.2	44.0	38.4	26.9	10.5
Hemlock.....	4''-9''	94.5	80.5	54.4	21.4	39.9	34.8	24.4	9.6
	10'' up	764.6	651.2	440.3	173.2	159.5	139.3	97.4	38.2
White cedar.....	4''-9''	225.1	191.8	129.6	51.0	142.0	123.9	86.7	34.0
	10'' up	418.1	356.1	240.8	94.7	111.5	97.3	68.2	26.8
Larch.....	4''-9''	.....	.....	.....	.....	33.9	29.5	20.7	8.1
	10'' up	.....	.....	.....	.....	3.3	2.9	2.0	0.8
TOTAL CONIFERS.....	4''-9''	1110.8	946.1	639.4	251.6	1461.8	1275.7	893.1	350.3
	10'' up	2562.0	2182.3	1475.7	580.3	1360.5	1187.5	831.2	326.1
Sugar maple.....	4''-9''	13.7	11.7	7.9	3.1	13.2	11.5	8.0	3.2
	10'' up	77.6	66.1	44.7	17.6	20.6	18.0	12.6	4.9
Yellow birch.....	4''-9''	40.3	34.4	23.2	9.1	24.3	21.2	14.9	5.8
	10'' up	183.8	156.5	105.8	41.6	127.8	111.6	78.0	30.6
Beech.....	4''-9''	4.5	3.8	2.6	1.0	.....	.....	.....	.....
	10'' up	3.8	3.3	2.2	0.9	.....	.....	.....	.....
White elm.....	4''-9''	.....	.....	.....	.....	2.4	2.1	1.4	0.6
	10'' up	.....	.....	.....	.....	4.4	3.8	2.7	1.0
Red oak.....	4''-9''	.....	.....	.....	.....	12.1	10.5	7.4	2.9
	10'' up	.....	.....	.....	.....	11.6	10.1	7.1	2.8
White birch.....	4''-9''	12.8	10.9	7.4	2.9	84.7	74.0	51.8	20.3
	10'' up	3.8	3.2	2.2	0.9	43.7	38.1	26.7	10.5
Poplar (all).....	4''-9''	44.8	38.2	25.8	10.2	57.5	50.2	35.2	13.8
	10'' up	50.6	43.1	29.2	11.4	98.0	85.5	59.8	23.4
Red maple.....	4''-9''	.....	.....	.....	.....	22.7	19.8	13.9	5.5
	10'' up	.....	.....	.....	.....	4.3	3.8	2.6	1.0
Black ash.....	4''-9''	15.8	13.5	9.1	3.6	12.8	11.2	7.8	3.1
	10'' up	25.7	21.9	14.8	5.8	17.6	15.4	10.8	4.2
TOTAL HARDWOODS.....	4''-9''	131.9	112.5	76.0	29.9	229.7	200.5	140.4	55.2
	10'' up	345.3	294.1	198.9	78.2	328.0	286.3	200.3	78.4
GRAND TOTAL.....	4''-9''	1242.7	1058.6	715.4	281.5	1691.5	1476.2	1033.5	405.5
	10'' up	2907.3	2476.4	1674.6	658.5	1688.5	1473.8	1031.5	404.5
TOTAL 4'' UP.....		4150.0	3535.0	2390.0	940.0	3380.0	2950.0	2065.0	810.0
SPECIES	D.B. H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9''	.....	.....	.....	.....	12.2	11.1	8.6	.....
	10'' up	.....	.....	.....	.....	34.9	31.6	24.6	.....
White spruce.....	4''-9''	3.8	3.8	3.6	.....	6.8	6.2	4.8	3.3
	10'' up	20.1	19.8	18.7	.....	9.8	8.9	6.9	.....
Balsam fir.....	4''-9''	14.9	14.6	13.8	6.6	33.0	29.9	23.3	22.6
	10'' up	2.2	2.2	2.1	.....	5.8	5.3	4.1	16.4
Hemlock.....	4''-9''	18.0	17.8	16.8	.....	11.8	10.7	8.3	2.8
	10'' up	94.5	93.2	88.5	.....	57.4	52.1	40.6	17.1
White cedar.....	4''-9''	2.8	2.7	2.6	.....	.....	.....	.....	.....
	10'' up	7.4	7.4	7.0	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9''	39.5	38.9	36.8	6.6	63.8	57.9	45.0	28.7
	10'' up	124.2	122.6	116.3	.....	107.9	97.9	76.2	33.5

TABLE 31 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Sugar maple.....	4"-9" 10" up	311.5 1635.6	307.3 1613.5	291.4 1530.1	84.3 563.9	402.4 855.2	364.9 775.5	284.0 603.6	91.4 479.7
Yellow birch.....	4"-9" 10" up	45.0 1080.3	44.4 1065.7	42.1 1010.6	45.8 1480.6	80.9 323.5	73.3 293.4	57.1 228.3	4.5 17.9
Beech.....	4"-9" 10" up	47.3 95.9	46.6 94.7	44.2 89.8	.....	45.7 92.8	41.4 84.2	32.3 65.5	.....
White elm.....	4"-9" 10" up	0.5 2.9	0.5 2.9	0.5 2.7	.....	17.3 27.0	15.7 24.5	12.2 19.1	18.1 94.8
Ironwood.....	4"-9" 10" up	15.6 4.9	15.4 4.8	14.5 4.6	.....	37.0 4.6	33.6 4.1	26.1 3.2	.....
Red oak.....	4"-9" 10" up	.....	.....	.....	.....	24.8 14.0	22.5 12.7	17.5 9.9	7.5 .....
White birch.....	4"-9" 10" up	.....	.....	.....	.....	126.3 84.2	114.5 76.4	89.2 59.4	.....
Poplar (all).....	4"-9" 10" up	.....	.....	.....	.....	213.0 130.5	193.1 118.4	150.3 92.1	.....
Red maple.....	4"-9" 10" up	.....	.....	.....	.....	22.3 8.2	20.1 7.5	15.7 5.8	.....
Black ash.....	4"-9" 10" up	.....	.....	.....	.....	10.9 11.3	9.8 10.3	7.6 8.0	1.6 15.8
Basswood.....	4"-9" 10" up	0.7 6.1	0.7 6.0	0.7 5.7	.....	7.5 34.0	6.8 30.9	5.3 24.0	.....
Black cherry.....	4"-9" 10" up	.....	.....	.....	8.8	18.9 6.0	17.2 5.4	13.4 4.2	23.4 13.1
TOTAL HARDWOODS.....	4"-9" 10" up	420.6 2825.7	414.9 2787.6	393.4 2643.5	138.9 2044.5	1007.0 1591.3	912.9 1443.3	710.7 1123.1	146.5 621.3
GRAND TOTAL.....	4"-9" 10" up	460.1 2949.9	453.8 2910.2	430.2 2759.8	145.5 2044.5	1070.8 1699.2	970.8 1541.2	755.7 1199.3	175.2 654.8
TOTAL 4" UP.....		3410.0	3364.0	3190.0	2190.0	2770.0	2512.0	1955.0	830.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	14.2 114.8	12.7 103.0	9.7 78.6	4.4 35.5	177.8 266.8	165.1 247.6	130.4 195.6	52.1 46.2
Red pine.....	4"-9" 10" up	.....	.....	.....	.....	38.8 60.6	36.0 56.3	28.4 44.5	6.7 26.8
White spruce.....	4"-9" 10" up	25.7 86.1	23.0 77.2	17.6 59.0	8.0 26.6	64.4 64.3	59.8 59.7	47.2 47.2	6.5 .....
Black spruce.....	4"-9" 10" up	.....	.....	.....	.....	18.7 4.7	17.4 4.3	13.8 3.4	.....
Balsam fir.....	4"-9" 10" up	90.3 17.2	81.0 15.4	61.8 11.8	27.9 5.3	186.4 18.4	172.9 17.1	136.7 13.5	60.5 .....
Hemlock.....	4"-9" 10" up	142.0 950.2	127.3 851.9	97.2 650.8	43.9 293.9	53.2 151.6	49.4 140.6	39.1 111.1	34.0 178.8
White cedar.....	4"-9" 10" up	40.9 79.5	36.7 71.2	28.1 54.4	12.6 24.6	40.3 38.7	37.4 35.9	29.5 28.4	.....
TOTAL CONIFERS.....	4"-9" 10" up	313.1 1247.8	280.7 1118.7	214.4 854.6	96.8 385.9	579.6 605.1	538.0 561.5	425.1 443.7	159.8 251.8
Sugar maple.....	4"-9" 10" up	119.9 585.3	107.5 524.7	82.1 400.9	37.1 181.0	104.4 202.7	96.9 188.2	76.6 148.6	54.9 288.5
Yellow birch.....	4"-9" 10" up	78.9 1499.2	70.7 1344.1	54.0 1026.8	24.4 463.7	55.7 271.9	51.7 252.4	40.8 199.4	6.3 120.0
Beech.....	4"-9" 10" up	18.4 37.5	16.5 33.6	12.6 25.7	5.7 11.6	8.4 9.1	7.8 8.5	6.2 6.7	.....
White elm.....	4"-9" 10" up	.....	.....	.....	.....	8.4 9.1	7.8 8.5	6.2 6.7	.....
Ironwood.....	4"-9" 10" up	9.3 3.6	8.4 3.2	6.3 2.5	2.9 1.1	10.6 1.1	9.9 1.0	7.8 0.8	.....

TABLE 31 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Red oak.....	4''-9'' 10'' up	.....	.....	.....	.....	12.9 7.6	12.0 7.0	9.4 5.6	.....
White birch.....	4''-9'' 10'' up	36.1 114.4	32.4 102.5	24.7 78.4	11.2 35.4	270.5 127.3	251.1 118.1	198.4 93.3	6.5 .....
Poplar (all).....	4''-9'' 10'' up	31.9 49.8	28.5 44.7	21.8 34.2	9.9 15.4	235.6 288.0	218.7 267.3	172.8 211.2	49.8 88.4
Red maple.....	4''-9'' 10'' up	9.8 16.0	8.8 14.3	6.7 11.0	3.0 5.0	30.0 8.0	27.9 7.4	22.0 5.9	32.9 21.1
Black ash.....	4''-9'' 10'' up	25.5 43.3	22.8 38.9	17.4 29.7	7.9 13.4	30.3 37.0	28.1 34.4	22.2 27.1	.....
Basswood.....	4''-9'' 10'' up	2.4 57.8	2.2 51.8	1.6 39.6	0.7 17.9	2.2 6.6	2.0 6.1	1.6 4.8	.....
Black cherry.....	4''-9'' 10'' up	.....	.....	.....	.....	2.5 0.4	2.3 0.4	1.8 0.3	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	332.2 2406.9	297.8 2157.8	227.2 1648.8	102.8 744.5	771.5 968.8	716.2 899.3	565.8 710.4	150.4 518.0
GRAND TOTAL.....	4''-9'' 10'' up	645.3 3654.7	578.5 3276.5	441.6 2503.4	199.6 1130.4	1351.1 1573.9	1254.2 1460.8	990.9 1154.1	310.2 769.8
TOTAL 4'' UP.....		4300.0	3855.0	2945.0	1330.0	2925.0	2715.0	2145.0	1080.0

TABLE 32.—Volume of the primary growing stock in cubic feet per acre.  
Algonquin Section—1950

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	59.4 144.1	56.3 136.5	44.2 107.2	18.6 45.1	178.4 404.7	166.6 378.0	119.1 270.0	21.3 97.9
Red pine.....	4''-9'' 10'' up	18.0 .....	17.1 .....	13.4 .....	5.6 .....	2.4 11.2	2.2 10.5	1.6 7.5	2.4 10.1
Jack pine.....	4''-9'' 10'' up	277.4 72.9	262.9 69.1	206.4 54.2	86.8 22.8	93.1 6.7	87.0 6.2	62.1 4.5	379.3 45.0
White spruce.....	4''-9'' 10'' up	35.0 26.8	33.2 25.4	26.0 20.0	10.9 8.4	55.6 91.9	51.9 85.8	37.1 61.3	.....
Black spruce.....	4''-9'' 10'' up	109.4 202.3	103.7 191.7	81.4 150.4	34.2 63.3	74.3 25.5	69.3 23.9	49.6 17.0	.....
Balsam fir.....	4''-9'' 10'' up	102.1 62.8	96.7 59.5	75.9 46.7	31.9 19.7	271.0 37.6	253.1 35.2	180.8 25.1	.....
Hemlock.....	4''-9'' 10'' up	116.7 249.1	110.6 236.0	86.8 185.3	36.5 78.0	134.9 166.9	126.0 155.9	90.0 111.4	.....
White cedar.....	4''-9'' 10'' up	106.1 82.0	100.5 77.7	78.9 61.0	33.2 25.6	162.0 126.2	151.2 117.9	108.1 84.2	.....
Larch.....	4''-9'' 10'' up	7.7 .....	7.3 .....	5.7 .....	2.4 .....	.....	.....	.....	3.7 .....
TOTAL CONIFERS.....	4''-9'' 10'' up	831.8 840.0	788.3 795.9	618.7 624.8	260.1 262.9	971.7 870.7	907.3 813.4	648.4 581.0	406.7 153.0



TABLE 32 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Sugar maple.....	4"-9" 10" up	6.5 253.7	6.2 240.3	4.8 188.7	2.0 79.4	7.3 6.3	6.8 5.9	4.9 4.2	.....
Yellow birch.....	4"-9" 10" up	11.5 202.3	10.9 191.7	8.6 150.4	3.6 63.3	31.9 115.6	29.7 108.0	21.3 77.1	.....
White elm.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	.....
White birch.....	4"-9" 10" up	2.7 25.6	2.6 24.3	2.0 19.1	0.9 8.0	39.0 42.7	36.4 39.9	26.0 28.5	14.1 5.9
Poplar (all).....	4"-9" 10" up	61.2 101.1	58.0 95.8	45.5 75.2	19.2 31.6	40.1 52.9	37.5 49.4	26.8 35.3	32.8 11.5
Red maple.....	4"-9" 10" up	29.3 17.1	27.7 16.2	21.8 12.7	9.1 5.4	30.4 21.8	28.4 20.3	20.3 14.5	.....
Ash.....	4"-9" 10" up	27.5 11.1	26.1 10.5	20.4 8.3	8.6 3.5	19.9 14.1	18.6 13.2	13.3 9.4	.....
Basswood.....	4"-9" 10" up	.....	.....	.....	.....	2.5 2.1	2.2 2.0	1.6 1.4	.....
TOTAL HARDWOODS.....	4"-9" 10" up	138.7 765.5	131.5 725.3	103.1 569.4	43.4 239.6	171.1 255.5	159.6 238.7	114.2 170.4	46.9 17.4
GRAND TOTAL.....	4"-9" 10" up	970.5 1605.5	919.8 1521.2	721.8 1194.2	303.5 502.5	1142.8 1126.2	1066.9 1052.1	762.6 751.4	453.6 170.4
TOTAL 4" UP.....		2576.0	2441.0	1916.0	806.0	2269.0	2119.0	1514.0	624.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	.....	.....	.....	.....	5.1 22.1	5.0 21.7	4.2 18.0	12.2 31.8
White spruce.....	4"-9" 10" up	1.3 9.4	1.2 9.2	1.0 7.8	0.5 3.6	1.2 1.1	1.1 1.1	1.0 0.9	.....
Balsam fir.....	4"-9" 10" up	21.5 3.4	21.0 3.3	17.8 2.8	8.3 1.3	15.6 2.5	15.4 2.4	12.8 2.0	2.3 .....
Hemlock.....	4"-9" 10" up	31.7 146.3	30.9 142.6	26.3 121.2	12.2 56.6	21.8 57.6	21.3 56.5	17.8 47.1	4.3 15.4
TOTAL CONIFERS.....	4"-9" 10" up	54.5 159.1	53.1 155.1	45.1 131.8	21.0 61.5	43.7 83.3	42.8 81.7	35.8 68.0	18.8 47.2
Sugar maple.....	4"-9" 10" up	332.6 1579.1	324.2 1539.2	275.5 1308.1	128.5 609.9	407.2 670.1	399.3 657.1	332.7 547.5	50.8 66.8
Yellow birch.....	4"-9" 10" up	39.0 911.5	38.0 888.5	32.3 755.1	15.1 352.0	57.1 158.4	56.0 155.3	46.6 129.4	9.9 7.6
Beech.....	4"-9" 10" up	52.3 140.0	51.0 136.4	43.3 116.0	20.2 54.0	53.0 142.0	52.0 139.3	43.4 116.0	.....
White elm.....	4"-9" 10" up	11.2 67.1	10.9 65.4	9.3 55.6	4.3 26.0	20.4 36.3	20.0 35.6	16.7 29.6	7.6 .....
Hornbeam.....	4"-9" 10" up	24.2 7.8	23.6 7.6	20.1 6.5	9.4 3.0	36.1 4.7	35.4 4.6	29.6 3.8	15.2 .....
Red oak.....	4"-9" 10" up	.....	.....	.....	.....	29.5 27.2	29.0 26.6	24.1 22.2	27.7 20.9
White birch.....	4"-9" 10" up	.....	.....	.....	.....	55.2 19.6	54.2 19.2	45.1 16.0	64.1 14.8
Poplar (all).....	4"-9" 10" up	.....	.....	.....	.....	131.5 61.3	128.9 60.1	107.4 50.1	254.5 73.4
Red maple.....	4"-9" 10" up	12.9 37.0	12.6 36.0	10.7 30.6	5.0 14.3	60.2 41.9	59.1 41.0	49.2 34.2	23.5 21.3
Ash.....	4"-9" 10" up	10.7 14.2	10.4 13.9	8.9 11.7	4.1 5.5	26.3 16.8	25.8 16.5	21.5 13.7	16.1 14.2
Basswood.....	4"-9" 10" up	5.6 76.3	5.4 74.4	4.6 63.2	2.1 29.5	17.3 41.7	16.9 40.9	14.1 34.1	.....
Black cherry.....	4"-9" 10" up	10.7 14.2	10.5 13.8	8.9 11.7	4.1 5.5	20.7 6.5	20.3 6.4	16.9 5.3	4.6 .....

TABLE 32 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
TOTAL HARDWOODS.....	4''-9'' 10'' up	499.2 2847.2	486.6 2775.2	413.6 2358.5	192.8 1099.7	914.5 1226.5	896.9 1202.6	747.3 1001.9	474.0 219.0
GRAND TOTAL.....	4''-9'' 10'' up	553.7 3006.3	539.7 2930.3	458.7 2490.3	213.8 1161.2	958.2 1309.8	939.7 1284.3	783.1 1069.9	492.8 266.2
TOTAL 4'' UP.....		3560.0	3470.0	2949.0	1375.0	2268.0	2224.0	1853.0	759.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
White pine.....	4''-9'' 10'' up	4.0 24.2	3.8 22.8	2.8 17.0	1.1 6.8	115.9 253.1	97.9 213.9	64.9 141.7	33.3 164.7
Red pine.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	5.8 3.2	4.9 2.7	3.2 1.8	..... 18.5
Jack pine.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	46.7
White spruce.....	4''-9'' 10'' up	12.3 88.5	11.6 83.4	8.6 62.1	3.4 24.8	34.2 55.8	28.9 47.1	19.2 31.2	1.2 .....
Black spruce.....	4''-9'' 10'' up	1.8 22.4	1.7 21.1	1.3 15.7	0.5 6.3	..... .....	..... .....	..... .....	.....
Balsam fir.....	4''-9'' 10'' up	79.2 13.5	74.6 12.8	55.6 9.5	22.2 3.8	182.7 33.3	154.4 28.1	102.4 18.6	1.2 .....
Hemlock.....	4''-9'' 10'' up	158.9 1017.9	149.8 959.8	111.6 714.8	44.6 285.4	153.7 266.3	129.9 225.0	86.1 149.1	8.6 28.9
White cedar.....	4''-9'' 10'' up	23.5 65.2	22.2 61.4	16.5 45.8	6.6 18.3	36.8 29.2	31.1 24.7	20.6 16.4	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	279.7 1231.7	263.7 1161.3	196.4 864.9	78.4 345.4	529.1 640.9	447.1 541.5	296.4 358.8	91.0 212.1
Sugar maple.....	4''-9'' 10'' up	169.1 874.7	159.4 824.8	118.7 614.3	47.4 245.3	124.8 259.2	105.5 219.0	69.9 145.1	11.6 70.8
Yellow birch.....	4''-9'' 10'' up	69.8 1155.3	65.8 1089.4	49.0 811.3	19.6 323.9	89.5 330.5	75.6 279.3	50.1 185.1	..... 7.4
Beech.....	4''-9'' 10'' up	13.3 43.1	12.5 40.7	9.3 30.3	3.7 12.1	15.0 33.0	12.7 27.9	8.4 18.5	.....
Elm.....	4''-9'' 10'' up	6.5 29.8	6.1 28.1	4.5 21.0	1.8 8.4	8.2 24.8	7.0 20.9	4.6 13.9	.....
Hornbeam.....	4''-9'' 10'' up	11.1 4.9	10.5 4.7	7.8 3.5	3.1 1.4	16.3 1.7	13.8 1.4	9.2 0.9	.....
Oak.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	25.5 34.5	21.5 29.2	14.3 19.3	4.5 6.0
White birch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	110.1 60.9	93.1 51.4	61.7 34.1	25.4 5.4
Poplar (all).....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	149.3 198.7	126.2 167.9	83.6 111.3	121.5 52.6
Red maple.....	4''-9'' 10'' up	36.9 47.7	34.8 45.0	25.9 33.5	10.3 13.4	116.5 102.5	98.4 86.6	65.2 57.4	5.5 .....
Ash.....	4''-9'' 10'' up	21.2 35.2	20.0 33.2	14.9 24.7	5.9 9.9	59.6 48.4	50.4 40.9	33.4 27.1	.....
Black cherry.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	15.8 5.2	13.3 4.4	8.8 2.9	1.2 .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	327.9 2190.7	309.1 2065.9	230.1 1538.6	91.8 614.4	730.6 1099.4	617.5 928.9	409.2 615.6	169.7 142.2
GRAND TOTAL.....	4''-9'' 10'' up	607.6 3422.4	572.8 3227.2	426.5 2403.5	170.2 959.8	1259.7 1740.3	1064.6 1470.4	705.6 974.4	260.7 354.3
TOTAL 4'' UP.....		4030.0	3800.0	2830.0	1130.0	3000.0	2535.0	1680.0	615.0

TABLE 33.—*Volume of the primary growing stock in cubic feet per acre.*  
*Algonquin Section—1951*

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
White pine.....	4"-9" 10" up	59.4 144.1	56.3 136.5	44.2 107.2	18.6 45.1	82.5 312.1	78.8 298.3	65.1 246.6	0.4 222.1
Red pine.....	4"-9" 10" up	18.0 .....	17.1 .....	13.4 .....	5.6 .....	16.8 24.7	16.1 23.6	13.3 19.5	14.6 93.1
Jack pine.....	4"-9" 10" up	277.4 72.9	262.9 69.1	206.4 54.2	86.8 22.8	.....	.....	.....	49.1
White spruce.....	4"-9" 10" up	35.0 26.8	33.2 25.4	26.0 20.0	10.9 8.4	90.8 140.2	86.8 134.0	71.7 110.8	39.0 10.9
Black spruce.....	4"-9" 10" up	109.4 202.3	103.7 191.7	81.4 150.4	34.2 63.3	32.9 16.4	31.4 15.7	26.0 13.0	.....
Balsam fir.....	4"-9" 10" up	102.1 62.8	96.7 59.5	75.9 46.7	31.9 19.7	215.3 49.5	205.8 47.3	170.1 39.1	78.8
Hemlock.....	4"-9" 10" up	116.7 249.1	110.6 236.0	86.8 185.3	36.5 78.0	32.5 55.8	31.1 53.3	25.6 44.1	2.6
White cedar.....	4"-9" 10" up	106.1 82.0	100.5 77.7	78.9 61.0	33.2 25.6	647.4 354.7	618.7 339.0	511.4 280.3	129.0 17.3
Larch.....	4"-9" 10" up	7.7 .....	7.3 .....	5.7 .....	2.4 .....	44.5 25.6	42.5 24.5	35.2 20.2	.....
TOTAL CONIFERS.....	4"-9" 10" up	831.8 840.0	788.3 795.9	618.7 624.8	260.1 262.9	1162.7 979.0	1111.2 935.7	918.4 773.6	313.5 343.4
Sugar maple.....	4"-9" 10" up	6.5 253.7	6.2 240.3	4.8 188.7	2.0 79.4	8.3 15.1	7.9 14.4	6.5 12.0	1.8
Yellow birch.....	4"-9" 10" up	11.5 202.3	10.9 191.7	8.6 150.4	3.6 63.3	11.9 37.4	11.4 35.7	9.4 29.6	.....
Elm.....	4"-9" 10" up	.....	.....	.....	.....	24.0 22.7	22.9 21.8	18.9 18.0	6.1
Ironwood.....	4"-9" 10" up	.....	.....	.....	.....	7.0 0.8	6.7 0.7	5.6 0.6	4.4
Oak.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	4.4
White birch.....	4"-9" 10" up	2.7 25.6	2.6 24.3	2.0 19.1	0.9 8.0	43.3 29.4	41.4 28.1	34.2 23.2	.....
Poplar (all).....	4"-9" 10" up	61.2 101.1	58.0 95.8	45.5 75.2	19.2 31.6	65.2 119.1	62.4 113.8	51.5 94.1	28.3 174.1
Red maple.....	4"-9" 10" up	29.3 17.1	27.7 16.2	21.8 12.7	9.1 5.4	3.5 4.3	3.3 4.1	2.8 3.4	.....
Ash.....	4"-9" 10" up	27.5 11.1	26.1 10.5	20.4 8.3	8.6 3.5	42.7 19.6	40.8 18.7	33.8 15.4	.....
TOTAL HARDWOODS.....	4"-9" 10" up	138.7 765.5	131.5 725.3	103.1 569.4	43.4 239.6	205.9 248.4	196.8 237.3	162.7 196.3	45.0 174.1
GRAND TOTAL.....	4"-9" 10" up	970.5 1605.5	919.8 1521.2	721.8 1194.2	303.5 502.5	1368.6 1227.4	1308.0 1173.0	1081.1 969.9	358.5 517.5
TOTAL 4" UP.....		2576.0	2441.0	1916.0	806.0	2596.0	2481.0	2051.0	876.0
SPECIES	D.B.H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
White pine.....	4"-9" 10" up	.....	.....	.....	.....	7.9 44.4	7.5 42.0	5.9 33.0	4.9 38.5
White spruce.....	4"-9" 10" up	.....	.....	.....	.....	3.4 6.6	3.2 6.3	2.5 5.0	.....
Balsam fir.....	4"-9" 10" up	10.5 4.8	10.2 4.7	8.9 4.1	6.8	23.2 4.8	22.0 4.6	17.4 3.6	7.3 2.8
Hemlock.....	4"-9" 10" up	15.2 128.4	14.8 125.2	12.9 108.9	8.1 22.9	10.2 28.0	9.7 26.5	7.6 20.9	.....
White cedar.....	4"-9" 10" up	5.3 13.0	5.2 12.7	4.5 11.0	..... 5.4	10.6 7.5	10.0 7.1	7.9 5.6	.....
TOTAL CONIFERS.....	4"-9" 10" up	31.0 146.2	30.2 142.6	26.3 124.0	14.9 28.3	55.4 91.3	52.4 86.5	41.3 68.1	12.2 41.3



TABLE 33 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Sugar maple.....	4''-9'' 10'' up	314.7 1258.7	306.8 1227.4	266.9 1067.5	72.8 773.7	332.8 308.4	315.1 292.0	248.0 229.8	53.4 79.5
Yellow birch.....	4''-9'' 10'' up	36.0 232.8	35.1 227.1	30.6 197.4	1.6 142.8	40.7 53.8	38.5 50.9	30.3 40.1	5.8 10.6
Beech.....	4''-9'' 10'' up	76.7 286.9	74.8 279.7	65.1 243.2	16.5 59.1	41.3 67.2	39.2 63.6	30.8 50.1	.....
Elm.....	4''-9'' 10'' up	18.8 121.7	18.4 118.6	16.0 103.2	9.6 78.1	43.5 71.1	41.2 67.3	32.5 52.9	21.0 26.9
Ironwood.....	4''-9'' 10'' up	40.4 8.5	39.4 8.3	34.3 7.2	18.9 .....	55.7 4.6	52.8 4.3	41.5 3.4	8.8 0.7
Oak.....	4''-9'' 10'' up	7.6 38.2	7.4 37.3	6.5 32.4	6.0 33.2	71.8 79.0	67.9 74.8	53.5 58.9	47.1 29.1
White birch.....	4''-9'' 10'' up	11.8 15.7	11.5 15.3	10.0 13.3	1.4 .....	97.2 31.4	92.1 29.7	72.5 23.4	24.9 8.5
Poplar (all).....	4''-9'' 10'' up	22.8 44.4	22.2 43.3	19.3 37.7	.....	179.4 120.1	169.8 113.7	133.7 89.5	124.1 51.0
Red maple.....	4''-9'' 10'' up	12.7 5.6	12.4 5.5	10.8 4.7	.....	43.0 17.3	40.7 16.4	32.0 12.9	29.3 14.8
Ash.....	4''-9'' 10'' up	34.9 53.7	34.0 52.4	29.6 45.5	1.8 49.5	57.9 28.5	54.8 27.0	43.1 21.3	12.0 8.8
Basswood.....	4''-9'' 10'' up	26.8 196.2	26.1 191.4	22.7 166.4	..... 41.8	42.6 63.9	40.4 60.5	31.8 47.6	6.1 14.1
Black cherry.....	4''-9'' 10'' up	6.6 5.6	6.3 5.5	5.6 4.8	.....	10.1 2.0	9.6 1.8	7.5 1.5	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	609.8 2268.0	594.4 2211.8	517.4 1923.3	128.6 1178.2	1016.0 847.3	962.1 802.0	757.2 631.4	332.5 244.0
GRAND TOTAL.....	4''-9'' 10'' up	640.8 2414.2	624.6 2354.4	543.7 2047.3	143.5 1206.5	1071.4 938.6	1014.5 888.5	798.5 699.5	344.7 285.3
TOTAL 4'' UP.....		3055.0	2979.0	2591.0	1350.0	2010.0	1903.0	1498.0	630.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	18.3 202.0	17.3 191.2	13.6 150.1	.....	86.6 303.6	80.2 281.1	61.3 214.9	30.1 148.1
Red pine.....	4''-9'' 10'' up	.....	.....	.....	.....	15.0 34.8	13.9 32.2	10.6 24.6	3.4 6.2
White spruce.....	4''-9'' 10'' up	28.8 81.4	27.2 77.1	21.4 60.5	.....	56.8 76.8	52.6 71.1	40.2 54.4	24.0 59.1
Black spruce.....	4''-9'' 10'' up	15.3 16.2	14.5 15.3	11.4 12.0	.....	8.8 4.3	8.1 4.0	6.2 3.1	.....
Balsam fir.....	4''-9'' 10'' up	136.4 36.7	129.2 34.7	101.4 27.3	2.5 .....	211.8 42.2	196.2 39.0	150.0 29.8	33.9 18.8
Hemlock.....	4''-9'' 10'' up	106.4 731.5	100.7 692.5	79.1 543.7	54.7 .....	40.7 61.4	37.7 56.9	28.8 43.5	13.2 39.5
White cedar.....	4''-9'' 10'' up	89.1 205.9	84.3 195.0	66.2 153.1	46.5 14.5	171.4 74.8	158.7 69.3	121.3 53.0	12.9 3.1
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	2.2 0.4	2.0 0.4	1.6 0.3	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	394.3 1273.7	373.2 1205.8	293.1 946.7	103.7 14.5	593.3 598.3	549.4 554.0	420.0 423.6	117.5 274.8
Sugar maple.....	4''-9'' 10'' up	115.7 612.1	109.5 579.4	86.0 454.9	18.3 450.7	95.4 77.5	88.3 71.7	67.6 54.8	34.8 96.2
Yellow birch.....	4''-9'' 10'' up	49.2 363.9	46.5 344.5	36.5 270.5	..... 27.4	27.3 64.4	25.3 59.6	19.3 45.6	2.2 11.4
Beech.....	4''-9'' 10'' up	35.6 74.6	33.7 70.6	26.5 55.4	8.7 .....	8.1 12.9	7.5 11.9	5.7 9.1	1.5 9.7
Elm.....	4''-9'' 10'' up	23.7 145.5	22.4 137.7	17.6 108.1	..... 164.2	47.6 67.6	44.1 62.6	33.7 47.9	11.4 10.2

TABLE 33 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Ironwood.....	4''-9'' 10'' up	11.5 4.2	10.9 4.0	8.6 3.1	15.4 18.2	17.1 1.2	15.9 1.1	12.2 0.8	16.2 3.8
Oak.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... 22.4	24.0 23.1	22.2 21.4	17.0 16.4	16.8 25.5
White birch.....	4''-9'' 10'' up	41.3 68.9	39.1 65.2	30.7 51.2	..... 19.9	133.9 59.9	124.0 55.4	94.8 42.4	17.5 4.8
Poplar (all).....	4''-9'' 10'' up	53.7 217.7	50.9 206.1	40.0 161.8	.....	258.2 278.7	239.1 258.0	182.8 197.3	45.0 67.7
Red maple.....	4''-9'' 10'' up	43.1 74.9	40.8 70.9	32.0 55.7	.....	58.4 25.4	54.1 23.5	41.3 18.0	19.6 5.2
Ash.....	4''-9'' 10'' up	80.4 108.4	76.2 102.6	59.8 80.6	29.4 219.4	66.8 38.0	61.8 35.2	47.2 26.9	4.3 2.9
Basswood.....	4''-9'' 10'' up	9.4 128.3	8.9 121.4	7.0 95.3	4.1 109.1	12.6 24.1	11.7 22.3	8.9 17.0	.....
Black cherry.....	4''-9'' 10'' up	2.6 1.3	2.4 1.3	1.9 1.0	..... 18.6	4.2 1.0	3.9 1.0	3.0 0.7	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	466.2 1799.8	441.3 1703.7	346.6 1337.6	75.9 1049.9	753.6 673.8	697.9 623.7	533.5 476.9	169.3 237.4
GRAND TOTAL.....	4''-9'' 10'' up	860.5 3073.5	814.5 2909.5	639.7 2284.3	179.6 1064.4	1346.9 1272.1	1247.3 1177.7	953.5 900.5	286.8 512.2
TOTAL 4'' UP.....		3934.0	3724.0	2924.0	1244.0	2619.0	2425.0	1854.0	799.0

TABLE 34.—Volume of the primary growing stock in cubic feet per acre.  
Algonquin Section—1954-1955

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	
White pine.....	4''-9'' 10'' up	240.2 1044.1	223.7 972.2	167.6 728.8	117.6 296.5	114.3 288.2	87.2 219.8	..... .....
Pitch pine.....	4''-9'' 10'' up	.....	.....	.....	7.0 5.3	6.9 5.1	5.2 3.9	..... .....
White spruce.....	4''-9'' 10'' up	5.2 9.7	4.9 9.0	3.7 6.7	13.8 33.3	13.5 32.3	10.3 24.7	..... .....
Black spruce.....	4''-9'' 10'' up	.....	.....	.....	43.1 12.2	41.9 11.9	31.9 9.1	..... .....
Balsam fir.....	4''-9'' 10'' up	.....	.....	.....	59.0 16.8	57.3 16.4	43.8 12.5	..... .....
Hemlock.....	4''-9'' 10'' up	35.4 158.3	33.0 147.4	24.7 110.5	40.4 101.0	39.3 98.2	30.0 74.9	..... .....
White cedar.....	4''-9'' 10'' up	338.8 284.0	315.5 264.5	236.5 198.2	731.5 154.1	711.2 149.8	542.4 114.3	..... .....
Red cedar.....	4''-9'' 10'' up	.....	.....	.....	1.9 0.2	1.9 0.1	1.4 0.1	..... .....
Larch.....	4''-9'' 10'' up	3.0 .....	2.8 .....	2.1 .....	51.2 10.3	49.8 10.0	38.0 7.6	..... .....
TOTAL CONIFERS.....	4''-9'' 10'' up	622.6 1496.1	579.9 1393.1	434.6 1044.2	1065.5 629.7	1036.1 612.0	790.2 466.9	..... .....

TABLE 34 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)			CONIFEROUS IMMATURE (C-II) (Cont'd)			ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Sugar maple.....	4''-9'' 10'' up	5.6 42.1	5.2 39.2	3.9 29.4	5.1 5.2	4.9 5.1	3.7 3.9	.....
Soft maple.....	4''-9'' 10'' up	23.8	22.2	16.6	18.5 12.2	18.0 11.9	13.7 9.1	.....
White birch.....	4''-9'' 10'' up	13.3 19.5	12.4 18.1	9.3 13.6	10.4 6.0	10.1 5.8	7.8 4.4	.....
Yellow birch.....	4''-9'' 10'' up	6.6 14.3	6.1 13.3	4.6 10.0	10.1 4.3	9.9 4.1	7.5 3.1	.....
Beech.....	4''-9'' 10'' up	6.4 38.3	5.9 35.7	4.5 26.7	4.3 3.9	4.2 3.8	3.2 2.9	.....
Elm.....	4''-9'' 10'' up	49.7 269.2	46.3 250.6	34.7 187.9	58.2 77.1	56.5 75.0	43.1 57.2	.....
Ironwood.....	4''-9'' 10'' up	11.9	11.1	8.3	1.7 0.4	1.6 0.4	1.2 0.3	.....
Red oak.....	4''-9'' 10'' up	107.3	99.9	74.9	1.9 12.5	1.9 12.1	1.4 9.2	.....
White oak.....	4''-9'' 10'' up	5.1 69.4	4.8 64.6	3.6 48.4	4.9 17.6	4.8 17.1	3.6 13.1	.....
Poplar (all).....	4''-9'' 10'' up	1.3 25.5	1.2 23.8	0.9 17.8	21.5 44.1	20.9 42.9	16.0 32.7	.....
Black ash.....	4''-9'' 10'' up	3.0	2.8	2.1	19.0 1.5	18.5 1.4	14.1 1.1	.....
White ash.....	4''-9'' 10'' up	.....	.....	.....	2.8 1.3	2.7 1.3	2.0 1.0	.....
Basswood.....	4''-9'' 10'' up	149.0	138.8	104.0	3.6 6.7	3.5 6.5	2.7 4.9	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	102.9 758.4	95.8 706.2	71.9 529.3	162.0 192.8	157.5 187.4	120.0 142.9	.....
GRAND TOTAL.....	4''-9'' 10'' up	725.5 2254.5	675.7 2099.3	506.5 1573.5	1227.5 822.5	1193.6 799.4	910.2 609.8	.....
TOTAL 4'' UP.....		2980.0	2775.0	2080.0	2050.0	1993.0	1520.0	.....
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	1.7 26.2	1.7 23.5	1.1 17.6	10.3 31.8	9.0 27.7	6.4 19.7	5.8 26.3
White spruce.....	4''-9'' 10'' up	0.6 2.5	0.5 2.3	0.4 1.7	0.6 1.1	0.6 0.9	0.4 0.6	0.9 1.3
Balsam fir.....	4''-9'' 10'' up	2.4 0.7	2.2 0.6	1.6 0.5	1.6 0.1	1.4 0.1	0.9 0.1	1.7 0.5
Hemlock.....	4''-9'' 10'' up	12.2 49.8	11.0 44.6	8.2 33.4	12.2 9.7	10.6 8.5	7.6 6.0	12.3 23.3
White cedar.....	4''-9'' 10'' up	10.5 8.1	9.5 7.2	7.1 5.4	12.8 2.4	11.1 2.1	7.9 1.5	12.7 4.2
Red cedar.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	0.1
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	0.3 0.1
TOTAL CONIFERS.....	4''-9'' 10'' up	27.4 87.3	24.7 78.2	18.4 58.6	37.5 45.1	32.7 39.3	23.2 27.9	33.7 55.8
Sugar maple.....	4''-9'' 10'' up	145.4 685.4	130.4 614.9	97.7 460.5	180.0 47.3	157.1 41.2	111.6 29.3	111.4 127.7
Soft maple.....	4''-9'' 10'' up	94.7 472.6	85.0 423.9	63.7 317.5	191.7 109.7	167.2 95.7	118.9 68.0	97.7 144.9
White birch.....	4''-9'' 10'' up	2.3 3.9	2.1 3.5	1.6 2.6	41.1 9.4	35.9 8.2	25.5 5.8	12.0 9.2
Yellow birch.....	4''-9'' 10'' up	23.3 29.4	21.0 26.3	15.7 19.7	16.0 5.9	14.0 5.1	10.0 3.6	22.0 19.1



TABLE 34 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)			HARDWOOD IMMATURE (H-II) (Cont'd)			HARDWOOD ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Beech.....	4''-9'' 10'' up	36.0 131.4	32.3 117.9	24.2 88.3	18.1 7.2	15.8 6.2	11.3 4.4	16.7 28.0
Elm.....	4''-9'' 10'' up	120.2 763.3	107.8 684.8	80.7 512.9	149.4 145.3	130.3 126.8	92.6 90.1	131.4 324.1
Ironwood.....	4''-9'' 10'' up	22.7 2.1	20.3 1.9	15.3 1.4	32.9 0.8	28.7 0.7	20.4 0.5	20.5 1.0
Red oak.....	4''-9'' 10'' up	3.3 55.6	3.0 49.8	2.2 37.4	65.5 99.5	57.2 86.8	40.6 61.7	19.4 76.5
White oak.....	4''-9'' 10'' up	3.1 37.2	2.7 33.4	2.1 25.0	24.8 15.6	21.6 13.6	15.4 9.7	12.1 21.8
Poplar (all).....	4''-9'' 10'' up	6.4 12.2	5.7 11.0	4.3 8.2	86.2 80.5	75.2 70.2	53.4 49.9	16.5 32.7
Black ash.....	4''-9'' 10'' up	43.6 18.4	39.1 16.5	29.3 12.4	65.7 5.0	57.3 4.4	40.7 3.1	51.3 7.5
White ash.....	4''-9'' 10'' up	13.9 57.4	12.5 51.5	9.3 38.6	44.4 23.0	38.7 20.1	27.5 14.3	21.2 30.4
Basswood.....	4''-9'' 10'' up	12.4 155.0	11.1 139.1	8.3 104.2	56.5 53.0	49.3 46.2	35.0 32.9	18.7 70.9
Black cherry.....	4''-9'' 10'' up	1.1 2.0	1.0 1.8	0.7 1.4	2.7 0.7	2.3 0.6	1.7 0.4	1.1 0.8
Butternut.....	4''-9'' 10'' up	1.5 10.9	1.3 9.8	1.0 7.3	2.2 4.5	1.9 4.0	1.4 2.8	2.0 4.4
Hickory.....	4''-9'' 10'' up	6.8 11.8	6.1 10.6	4.6 7.9	13.6 3.2	11.9 2.8	8.4 2.0	5.8 4.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	536.7 2448.6	481.4 2196.7	360.7 1645.3	990.8 610.6	864.4 532.6	614.4 378.5	559.8 903.7
GRAND TOTAL.....	4''-9'' 10'' up	564.1 2535.9	506.1 2274.9	379.1 1703.9	1028.3 655.7	897.1 571.9	637.6 406.4	593.5 959.5
TOTAL 4'' UP.....		3100.0	2781.0	2083.0	1684.0	1469.0	1044.0	1553.0
		MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
White pine.....	4''-9'' 10'' up	51.8 372.7	50.8 365.7	45.4 327.2	47.5 92.9	46.4 90.8	36.2 71.0	33.8 132.2
Red pine.....	4''-9'' 10'' up				1.2 0.6	1.2 0.5	0.9 0.4	
Pitch pine.....	4''-9'' 10'' up				1.1 2.4	1.1 2.3	0.9 1.8	1.5 2.4
White spruce.....	4''-9'' 10'' up	4.1 27.9	4.0 27.4	3.6 24.5	10.7 17.4	10.4 17.0	8.2 13.2	3.3 13.2
Black spruce.....	4''-9'' 10'' up				1.5 0.3	1.4 0.3	1.1 0.2	0.2
Balsam fir.....	4''-9'' 10'' up	7.3 8.7	7.2 8.5	6.5 7.6	24.8 5.0	24.3 4.9	18.9 3.9	10.6 2.9
Hemlock.....	4''-9'' 10'' up	84.3 236.1	82.7 231.6	74.0 207.2	99.0 67.7	96.8 66.1	75.6 51.7	76.5 109.4
White cedar.....	4''-9'' 10'' up	112.2 90.7	110.0 89.0	98.5 79.6	200.9 32.4	196.5 31.7	153.5 24.8	108.6 52.1
Red cedar.....	4'' 9 10'' up							0.7
Larch.....	4''-9'' 10'' up	1.3 1.4	1.2 1.4	1.1 1.2	14.2 1.6	13.9 1.5	10.9 1.2	3.5 2.0
TOTAL CONIFERS.....	4''-9'' 10'' up	261.0 737.5	255.9 723.6	229.1 647.3	400.9 220.3	392.0 215.1	306.2 168.2	238.7 314.2

TABLE 34 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)			MIXEDWOODS IMMATURE (M-II) (Cont'd)			MIXEDWOODS ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Sugar maple.....	4''-9'' 10'' up	62.2 268.9	61.1 263.7	54.6 235.9	39.7 30.5	38.8 29.8	30.3 23.3	51.5 69.4
Soft maple.....	4''-9'' 10'' up	44.9 142.0	44.0 139.3	39.4 124.6	119.8 69.7	117.0 68.2	91.5 53.2	58.5 79.6
White birch.....	4''-9'' 10'' up	6.0 12.7	5.9 12.4	5.3 11.1	49.3 13.9	48.1 13.6	37.6 10.6	15.2 11.4
Yellow birch.....	4''-9'' 10'' up	24.8 52.6	24.4 51.6	21.8 46.1	23.8 14.8	23.2 14.5	18.2 11.3	31.0 37.7
Beech.....	4''-9'' 10'' up	17.3 84.2	16.9 82.6	15.1 73.9	10.5 7.1	10.3 6.9	8.0 5.4	10.0 19.2
Elm.....	4''-9'' 10'' up	71.7 406.2	70.3 398.6	62.9 356.6	160.6 183.3	157.0 179.2	122.6 140.1	88.9 254.4
Ironwood.....	4''-9'' 10'' up	18.6 8.1	18.3 7.9	16.3 7.1	13.3 0.7	13.0 0.7	10.2 0.5	13.4 1.1
Red oak.....	4''-9'' 10'' up	4.3 91.8	4.2 90.1	3.8 80.5	20.8 35.4	20.3 34.6	15.9 27.0	9.6 60.8
White oak.....	4''-9'' 10'' up	11.4 66.0	11.2 64.8	10.0 57.9	12.3 15.8	12.0 15.4	9.4 12.0	15.9 31.6
Poplar (all).....	4''-9'' 10'' up	7.9 40.2	7.8 39.3	7.0 35.2	74.6 120.2	72.9 117.6	57.0 91.8	17.9 46.2
Black ash.....	4''-9'' 10'' up	35.8 12.3	35.0 12.1	31.4 10.8	57.8 5.4	56.4 5.3	44.1 4.1	41.4 6.4
White ash.....	4''-9'' 10'' up	6.0 28.7	5.8 28.2	5.2 25.3	8.4 7.4	8.2 7.2	6.5 5.6	11.0 15.5
Basswood.....	4''-9'' 10'' up	7.9 117.6	7.8 115.3	6.9 103.2	13.0 16.8	12.8 16.4	10.0 12.8	10.6 47.3
Black cherry.....	4''-9'' 10'' up	0.6 2.1	0.6 2.0	0.5 1.8	0.9 0.9	0.9 0.8	0.7 0.6	1.7 2.1
Butternut.....	4''-9'' 10'' up	0.3 5.0	0.3 4.9	0.3 4.4	2.7 2.6	2.6 2.5	2.1 1.9	0.5 3.5
Hickory.....	4''-9'' 10'' up	4.9 8.5	4.8 8.3	4.3 7.4	1.3 0.5	1.2 0.5	0.9 0.4	2.1 1.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	324.6 1346.9	318.4 1321.1	284.8 1181.8	608.8 525.0	594.7 513.2	465.0 400.6	379.2 687.9
GRAND TOTAL.....	4''-9'' 10'' up	585.6 2084.4	574.3 2044.7	513.9 1829.1	1009.7 745.3	986.7 728.3	771.2 568.8	617.9 1002.1
TOTAL 4" UP.....		2670.0	2619.0	2343.0	1755.0	1715.0	1340.0	1620.0



TABLE 35.—Volume of the primary growing stock in cubic feet per acre.  
Algonquin Section—1956

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine	4''-9'' 10'' up	.....	.....	.....	37.1	31.5	20.3	.....
Black spruce	4''-9'' 10'' up	.....	.....	.....	739.9	628.2	404.1	.....
Larch.....	4''-9'' 10'' up	.....	.....	.....	283.0	240.3	154.6	.....
TOTAL CONIFERS...	4''-9'' 10'' up	.....	.....	.....	1060.0	900.0	579.0	.....
TOTAL HARDWOODS..	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....
GRAND TOTAL...	4''-9'' 10'' up	.....	.....	.....	1060.0	900.0	579.0	.....
TOTAL 4'' UP.....		.....	.....	.....	1060.0	900.0	579.0	.....
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	147.4 446.8	133.3 404.4	94.0 285.1	39.1 67.2	33.6 57.8	21.6 37.1	54.2 139.7
Balsam fir.....	4''-9'' 10'' up	.....	.....	.....	3.1	2.7	1.7	9.5
Hemlock.....	4''-9'' 10'' up	.....	.....	.....	28.9 35.2	24.9 30.2	16.0 19.4	3.5 10.3
White cedar.....	4''-9'' 10'' up	.....	.....	.....	1.6	1.3	0.9	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	147.4 446.8	133.3 404.4	94.0 285.1	72.7 102.4	62.5 88.0	40.2 56.5	67.2 150.0
Sugar maple.....	4''-9'' 10'' up	.....	.....	.....	61.9 28.8	53.3 24.7	34.2 15.8	66.2 129.4
Soft maple.....	4''-9'' 10'' up	.....	.....	.....	88.2 35.3	75.8 30.4	48.7 19.5	57.8 86.1
White birch.....	4''-9'' 10'' up	201.8	182.6	128.7	80.0 6.0	68.7 5.2	44.2 3.3	71.0 62.2
Yellow birch.....	4''-9'' 10'' up	.....	.....	.....	19.5 18.0	16.8 15.5	10.8 9.9	.....
Beech.....	4''-9'' 10'' up	.....	.....	.....	1.6	1.3	0.9	26.2 40.9
Elm.....	4''-9'' 10'' up	.....	.....	.....	20.5 20.1	17.6 17.3	11.3 11.1	.....
Ironwood.....	4''-9'' 10'' up	25.9	23.4	16.5	12.5	10.8	6.9	3.7
Red oak.....	4''-9'' 10'' up	98.4 38.6	89.0 34.9	62.8 24.6	224.7 103.4	193.3 88.9	124.1 57.1	114.9 264.3
White oak.....	4''-9'' 10'' up	59.0 66.9	53.4 60.5	37.7 42.6	83.5 30.6	71.8 26.3	46.1 16.9	72.5 37.2
Poplar (all).....	4''-9'' 10'' up	70.6 688.2	63.9 622.9	45.0 439.3	226.3 208.1	194.7 179.0	125.0 114.9	45.2 224.0
Black ash.....	4''-9'' 10'' up	.....	.....	.....	15.8 3.0	13.5 2.6	8.7 1.6	12.8
White ash.....	4''-9'' 10'' up	.....	.....	.....	11.1 3.0	9.5 2.6	6.1 1.7	.....
Basswood .....	4''-9'' 10'' up	.....	.....	.....	45.7 40.3	39.2 34.7	25.2 22.3	80.0 161.4
Black cherry.....	4''-9'' 10'' up	7.4	6.7	4.7	.....	.....	.....	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	463.1 793.7	419.0 718.3	295.4 506.5	891.3 496.6	766.3 427.2	492.2 274.1	550.3 1005.5
GRAND TOTAL.....	4''-9'' 10'' up	610.5 1240.5	552.3 1122.7	389.4 791.6	964.0 599.0	828.8 515.2	532.4 330.6	617.5 1155.5
TOTAL 4'' UP.....		1851.0	1675.0	1181.0	1563.0	1344.0	863.0	1773.0



TABLE 35 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
White pine.....	4''-9'' 10'' up	88.9 757.9	78.1 665.5	49.4 420.9	245.3 567.0	209.9 485.2	136.8 316.3	88.9 400.4
Red pine.....	4''-9'' 10'' up	8.4 .....	7.3 .....	4.6 .....	7.0 5.4	6.0 4.6	3.9 3.0	3.3 10.9
White spruce.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	2.3 3.7
Black spruce .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	1.8 .....	1.5 .....	1.0 .....	..... .....
Balsam fir.....	4''-9'' 10'' up	4.2 .....	3.7 .....	2.3 .....	60.8 4.5	52.0 3.9	33.9 2.5	60.4 .....
Hemlock.....	4''-9'' 10'' up	46.9 26.3	41.2 23.1	26.0 14.6	56.2 12.7	48.0 10.9	31.3 7.1	96.1 146.6
White cedar.....	4''-9'' 10'' up	34.2 20.2	30.0 17.7	19.0 11.2	3.5 .....	3.0 .....	2.0 .....	4.9 5.0
Larch .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	1.8 .....	1.5 .....	1.0 .....	..... .....
TOTAL CONIFERS.....	4''-9'' 10'' up	182.6 804.4	160.3 706.3	101.3 446.7	376.4 589.6	321.9 504.6	209.9 328.9	255.9 566.6
Sugar maple.....	4''-9'' 10'' up	18.2 44.5	16.0 39.1	10.1 24.7	6.3 2.5	5.5 2.1	3.5 1.4	32.0 39.7
Soft maple.....	4''-9'' 10'' up	41.3 34.0	36.3 29.8	22.9 18.9	19.4 .....	16.6 .....	10.8 .....	76.0 62.7
White birch.....	4''-9'' 10'' up	35.5 .....	31.2 .....	19.7 .....	123.6 7.1	105.8 6.0	69.0 3.9	41.1 10.0
Yellow birch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	9.7 12.7
Beech .....	4''-9'' 10'' up	4.2 .....	3.7 .....	2.3 .....	..... .....	..... .....	..... .....	2.4 17.4
Elm .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	4.0 4.8	3.5 4.1	2.2 2.7	2.3 .....
Ironwood.....	4''-9'' 10'' up	23.0 .....	20.2 .....	12.8 .....	1.8 .....	1.5 .....	1.0 .....	6.3 .....
Red oak.....	4''-9'' 10'' up	150.4 552.2	132.0 484.9	83.5 306.6	95.2 46.1	81.5 39.4	53.1 25.7	70.9 112.7
White oak.....	4''-9'' 10'' up	40.1 93.7	35.2 82.3	22.3 52.0	32.9 14.8	28.2 12.6	18.4 8.2	25.2 38.5
Poplar (all).....	4''-9'' 10'' up	66.9 .....	58.7 .....	37.2 .....	306.3 110.4	262.1 94.5	170.9 61.6	83.9 199.9
Black ash .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	11.7 6.0	10.0 5.1	6.5 3.4	2.3 .....
White ash .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	0.2 .....
Basswood .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	7.1 .....	6.0 .....	3.9 .....	10.8 4.8
Black cherry .....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	2.0 .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	379.6 724.4	333.3 636.1	210.8 402.2	608.3 191.7	520.7 163.8	339.3 106.9	365.1 498.4
GRAND TOTAL.....	4''-9'' 10'' up	562.2 1528.8	493.6 1342.4	312.1 848.9	984.7 781.3	842.6 668.4	549.2 435.8	621.0 1065.0
TOTAL 4'' UP.....		2091.0	1836.0	1161.0	1766.0	1511.0	985.0	1686.0

TABLE 36.—*Volume of the primary growing stock in cubic feet per acre.*  
*Algoma Section—1951*

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	4.3 95.3	4.1 90.9	3.3 74.5	1.4 31.2	58.5 134.5	54.6 125.7	42.1 96.8	39.9 222.4
Red pine.....	4"-9" 10" up	.....	.....	.....	.....	24.4 35.1	22.8 32.8	17.6 25.3	73.4 39.6
Jack pine.....	4"-9" 10" up	.....	.....	.....	.....	12.4 10.2	11.6 9.5	8.9 7.4	168.3 .....
White spruce.....	4"-9" 10" up	36.6 124.7	34.9 118.9	28.6 97.3	12.0 40.8	37.0 43.1	34.6 40.2	26.6 31.0	.....
Black spruce.....	4"-9" 10" up	463.6 240.9	442.0 229.8	362.0 188.1	151.9 78.9	181.0 18.1	169.2 16.9	130.4 13.0	21.2 .....
Balsam fir.....	4"-9" 10" up	236.6 55.2	225.6 52.6	184.7 43.1	77.5 18.1	303.3 43.7	283.3 40.8	218.3 31.5	92.7 71.0
Hemlock.....	4"-9" 10" up	.....	.....	.....	.....	7.0 62.8	6.5 58.7	5.0 45.2	.....
White cedar.....	4"-9" 10" up	392.1 369.3	373.9 352.2	306.2 288.3	128.4 121.0	428.4 210.1	400.3 196.2	308.5 151.2	.....
Larch.....	4"-9" 10" up	68.0 34.0	64.9 32.4	53.1 26.5	22.3 11.1	65.1 12.9	60.8 12.1	46.9 9.3	.....
TOTAL CONIFERS.....	4"-9" 10" up	1201.2 919.4	1145.4 876.8	937.9 717.8	393.5 301.1	1117.1 570.5	1043.7 532.9	804.3 410.7	395.5 333.0
Sugar maple.....	4"-9" 10" up	.....	.....	.....	.....	10.4 6.0	9.8 5.6	7.5 4.3	.....
Yellow birch.....	4"-9" 10" up	12.2 61.3	11.6 58.5	9.5 47.9	4.0 20.1	11.4 101.5	10.7 94.8	8.2 73.1	.....
Red oak.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	12.9
White birch.....	4"-9" 10" up	92.1 55.0	87.8 52.5	71.9 42.9	30.2 18.0	48.0 69.0	44.8 64.5	34.5 49.7	.....
Poplar (all).....	4"-9" 10" up	0.7 4.0	0.7 3.8	0.6 3.1	0.2 1.4	37.0 65.7	34.5 61.4	26.6 47.3	12.1
Red maple.....	4"-9" 10" up	11.3 10.1	10.8 9.6	8.8 7.9	3.7 3.3	13.5 2.9	12.6 2.7	9.7 2.1	4.5
Ash.....	4"-9" 10" up	4.7	4.5	3.7	1.5	.....	.....	.....	.....
TOTAL HARDWOODS.....	4"-9" 10" up	121.0 130.4	115.4 124.4	94.5 101.8	39.6 42.8	120.3 245.1	112.4 229.0	86.5 176.5	16.6 12.9
GRAND TOTAL.....	4"-9" 10" up	1322.2 1049.8	1260.8 1001.2	1032.4 819.6	433.1 343.9	1237.4 815.6	1156.1 761.9	890.8 587.2	412.1 345.9
TOTAL 4" UP.....		2372.0	2262.0	1852.0	777.0	2053.0	1918.0	1478.0	758.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
White pine.....	4"-9" 10" up	.....	.....	.....	.....	2.0 13.1	2.0 13.0	1.9 12.4	..... 109.2
Red pine.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	324.2
White spruce.....	4"-9" 10" up	2.8 13.2	2.7 13.0	2.6 12.2	1.5 7.3	3.4 5.7	3.4 5.6	3.3 5.3	.....
Balsam fir.....	4"-9" 10" up	31.5 7.0	30.9 6.9	29.0 6.5	17.2 3.8	35.1 7.1	34.9 7.0	33.4 6.7	6.6
Hemlock.....	4"-9" 10" up	5.4 94.1	5.3 92.3	5.0 86.7	2.9 51.4	4.4 24.2	4.4 24.0	4.2 23.0	.....
White cedar.....	4"-9" 10" up	10.6 37.5	10.4 36.8	9.8 34.6	5.8 20.5	5.8 1.7	5.8 1.7	5.6 1.6	.....
TOTAL CONIFERS.....	4"-9" 10" up	50.3 151.8	49.3 149.0	46.4 140.0	27.4 83.0	50.7 51.8	50.5 51.3	48.4 49.0	6.6 433.4

TABLE 36 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Sugar maple.....	4''-9'' 10'' up	297.5 1422.0	291.9 1395.4	274.3 1311.2	162.6 777.0	227.6 242.6	226.1 241.0	216.3 230.5	..... .....
Yellow birch.....	4''-9'' 10'' up	42.5 923.1	41.7 905.9	39.2 851.1	23.2 504.4	47.0 127.8	46.7 126.9	44.7 121.4	..... .....
Elm.....	4''-9'' 10'' up	6.4 22.5	6.3 22.0	5.9 20.7	3.5 12.3	10.2 13.9	10.1 13.8	9.7 13.2	..... .....
Ironwood.....	4''-9'' 10'' up	12.6 3.4	12.5 3.3	11.7 3.1	6.9 1.9	7.7 1.4	7.6 1.4	7.3 1.3	..... .....
Red oak.....	4''-9'' 10'' up	5.5 36.2	5.4 35.5	5.1 33.3	3.0 19.8	27.0 18.2	26.9 18.0	25.7 17.3	..... .....
White birch.....	4''-9'' 10'' up	18.2 52.4	17.9 51.4	16.8 48.3	10.0 28.6	127.3 27.9	126.4 27.8	121.0 26.5	62.8
Poplar (all).....	4''-9'' 10'' up	23.5 85.6	23.0 84.0	21.6 79.0	12.8 46.8	337.0 88.0	334.8 87.4	320.2 83.6	324.2
Red maple.....	4''-9'' 10'' up	13.1 35.0	12.9 34.3	12.1 32.3	7.2 19.1	48.4 23.9	48.1 23.8	46.0 22.7	..... .....
Ash.....	4''-9'' 10'' up	5.2 1.2	5.2 1.1	4.8 1.1	2.9 0.6	17.3 11.3	17.2 11.2	16.5 10.7	..... .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	424.5 2581.4	416.8 2532.9	391.5 2380.1	232.1 1410.5	849.5 555.0	843.9 551.3	807.4 527.2	387.0
GRAND TOTAL.....	4''-9'' 10'' up	474.8 2733.2	466.1 2681.9	437.9 2520.1	259.5 1493.5	900.2 606.8	894.4 602.6	855.8 576.2	393.6 433.4
TOTAL 4'' UP.....		3208.0	3148.0	2958.0	1753.0	1507.0	1497.0	1432.0	827.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9'' 10'' up	2.1 66.5	2.0 66.2	2.0 63.0	1.2 40.4	43.1 177.9	42.1 173.6	36.4 150.1	151.5 435.7
Red pine.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	7.2 9.5	7.0 9.3	6.1 8.0	10.5 84.4
White spruce.....	4''-9'' 10'' up	19.8 61.3	19.7 60.9	18.7 58.1	12.0 37.1	38.9 59.1	38.0 57.6	32.8 49.9	..... .....
Black spruce.....	4''-9'' 10'' up	8.1 7.5	8.0 7.5	7.7 7.1	4.9 4.5	17.9 9.2	17.4 9.0	15.1 7.8	..... .....
Balsam fir.....	4''-9'' 10'' up	145.1 57.6	144.2 57.2	137.5 54.5	87.9 34.9	281.4 43.9	274.6 42.9	237.4 37.0	..... .....
Hemlock.....	4''-9'' 10'' up	19.7 220.5	19.6 219.0	18.7 208.8	11.9 133.6	12.2 52.4	11.9 51.2	10.3 44.2	..... .....
White cedar.....	4''-9'' 10'' up	76.8 331.8	76.3 329.7	72.8 314.2	46.5 201.0	58.4 47.9	57.0 46.8	49.2 40.5	..... .....
TOTAL CONIFERS.....	4''-9'' 10'' up	271.6 745.2	269.8 740.5	257.4 705.7	164.4 451.5	459.1 399.9	448.0 390.4	387.3 337.5	162.0 520.1
Sugar maple.....	4''-9'' 10'' up	121.3 552.4	120.5 548.9	114.8 523.2	73.4 334.6	100.7 128.6	98.2 125.6	84.9 108.6	3.4
Yellow birch.....	4''-9'' 10'' up	71.4 1026.5	70.9 1019.9	67.6 972.2	43.2 621.7	37.2 210.9	36.3 205.9	31.4 177.9	..... .....
Ironwood.....	4''-9'' 10'' up	2.4 0.7	2.3 0.7	2.3 0.7	1.5 0.4	..... .....	..... .....	..... .....	..... .....
Red oak.....	4''-9'' 10'' up	2.1 16.6	2.1 16.5	2.0 15.7	1.3 10.0	9.7 7.0	9.5 6.8	8.2 5.9	75.9 44.2
White birch.....	4''-9'' 10'' up	32.5 79.8	32.3 79.3	30.7 75.6	19.7 48.3	143.6 112.9	140.2 110.1	121.2 95.2	..... .....
Poplar (all).....	4''-9'' 10'' up	33.6 88.1	33.4 87.5	31.8 83.4	20.3 53.4	181.0 142.2	176.6 138.8	152.7 119.9	..... .....



TABLE 36 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
Red maple.....	4''-9''	26.0	25.8	24.6	15.7	74.6	72.8	62.9	34.4
	10'' up	27.0	26.9	25.6	16.4	54.7	53.4	46.1	.....
Ash.....	4''-9''	9.9	9.9	9.4	6.0	16.8	16.4	14.1	.....
	10'' up	11.9	11.8	11.3	7.2	6.1	6.0	5.2	.....
TOTAL HARDWOODS.....	4''-9''	299.2	297.2	283.2	181.1	563.6	550.0	475.4	113.7
	10'' up	1803.0	1791.5	1707.7	1092.0	662.4	646.6	558.8	44.2
GRAND TOTAL.....	4''-9''	570.8	567.0	540.6	345.5	1022.7	998.0	862.7	275.7
	10'' up	2548.2	2532.0	2413.4	1543.5	1062.3	1037.0	896.3	564.3
TOTAL 4'' UP.....		3119.0	3099.0	2954.0	1889.0	2085.0	2035.0	1759.0	840.0

TABLE 37.—Volume of the primary growing stock in cubic feet per acre.  
Central Plateau Section—1949

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
Jack pine.....	4''-9''	155.4	151.8	132.7	42.9	613.3	596.8	509.5	33.3
	10'' up	211.2	206.2	180.3	28.5	73.5	71.5	61.0	.....
White spruce.....	4''-9''	17.0	16.6	14.5	.....	5.9	5.7	4.9	1.6
	10'' up	141.6	138.3	120.9	44.5	14.5	14.1	12.0	.....
Black spruce.....	4''-9''	1224.1	1195.4	1045.3	595.4	979.9	953.4	814.0	534.9
	10'' up	257.9	251.8	220.2	178.8	73.8	71.8	61.3	44.0
Balsam fir.....	4''-9''	191.7	187.2	163.7	51.2	53.2	51.8	44.2	35.8
	10'' up	55.3	54.0	47.2	3.7	7.9	7.7	6.6	.....
White cedar.....	4''-9''	39.5	38.6	33.8	10.3	.....	.....	.....	57.1
	10'' up	38.5	37.6	32.8	.....	.....	.....	.....	60.0
Larch.....	4''-9''	.....	.....	.....	.....	12.2	11.9	10.2	15.4
	10'' up	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9''	1627.7	1589.6	1390.0	699.8	1664.5	1619.6	1382.8	678.1
	10'' up	704.5	687.9	601.4	255.5	169.7	165.1	140.9	104.0
White birch.....	4''-9''	66.4	64.9	56.7	15.8	75.9	73.9	63.0	14.6
	10'' up	66.2	64.6	56.5	18.4	13.8	13.4	11.5	.....
Poplar (all).....	4''-9''	31.2	30.5	26.7	9.2	85.8	83.5	71.3	16.3
	10'' up	104.0	101.5	88.7	36.3	28.3	27.5	23.5	.....
TOTAL HARDWOODS.....	4''-9''	97.6	95.4	83.4	25.0	161.7	157.4	134.3	30.9
	10'' up	170.2	166.1	145.2	54.7	42.1	40.9	35.0	.....
GRAND TOTAL.....	4''-9''	1725.3	1685.0	1473.4	724.8	1826.2	1777.0	1517.1	709.0
	10'' up	874.7	854.0	746.6	310.2	211.8	206.0	175.9	104.0
TOTAL 4'' UP.....		2600.0	2539.0	2220.0	1035.0	2038.0	1983.0	1693.0	813.0

TABLE 37 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	4.5 57.4	4.1 53.5	3.2 41.6	1.3 17.3	85.6 45.1	77.5 40.8	56.5 29.8	21.7 11.5
White spruce.....	4''-9'' 10'' up	34.6 31.4	32.2 29.3	25.0 22.8	10.4 9.5	11.1 20.2	10.1 18.2	7.3 13.3	2.8 5.1
Black spruce.....	4''-9'' 10'' up	99.6 7.7	92.7 7.2	72.0 5.6	30.0 2.3	84.4 3.7	76.4 3.3	55.8 2.4	21.4 0.9
Balsam fir.....	4''-9'' 10'' up	56.8 42.2	52.9 39.3	41.2 30.5	17.1 12.7	22.7 .....	20.5 .....	15.0 .....	5.8 .....
TOTAL CONIFERS.....	4''-9'' 10'' up	195.5 138.7	181.9 129.3	141.4 100.5	58.8 41.8	203.8 69.0	184.5 62.3	134.6 45.5	51.7 17.5
White birch.....	4''-9'' 10'' up	671.0 298.6	624.6 278.0	485.6 216.1	201.8 89.8	408.1 23.7	369.3 21.5	269.5 15.7	103.6 6.0
Poplar (all).....	4''-9'' 10'' up	1408.3 1413.9	1311.0 1316.2	1019.2 1023.2	423.6 425.2	1873.6 262.8	1695.6 237.8	1237.2 173.5	475.5 66.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	2079.3 1712.5	1935.6 1594.2	1504.8 1239.3	625.4 515.0	2281.7 286.5	2064.9 259.3	1506.7 189.2	579.1 72.7
GRAND TOTAL.....	4''-9'' 10'' up	2274.8 1851.2	2117.5 1723.5	1646.2 1339.8	684.2 556.8	2485.5 355.5	2249.4 321.6	1641.3 234.7	630.8 90.2
TOTAL 4'' UP.....		4126.0	3841.0	2986.0	1241.0	2841.0	2571.0	1876.0	721.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	158.1 350.2	154.1 341.5	130.0 288.1	214.1 .....	360.0 97.4	340.5 92.1	269.1 72.8	122.3 33.1
White spruce.....	4''-9'' 10'' up	81.4 243.0	79.4 236.9	67.0 199.8	9.4 338.1	14.4 32.7	13.6 31.0	10.8 24.4	4.9 11.1
Black spruce.....	4''-9'' 10'' up	366.3 203.3	357.1 198.3	301.2 167.3	121.2 151.2	493.5 69.2	466.8 65.5	368.9 51.7	167.7 23.5
Balsam fir.....	4''-9'' 10'' up	199.4 56.6	194.4 55.2	164.0 46.5	18.1 .....	71.6 31.0	67.7 29.3	53.5 23.2	24.4 10.5
Larch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	7.5 0.8	7.1 0.8	5.6 0.6	2.5 0.3
TOTAL CONIFERS.....	4''-9'' 10'' up	805.2 853.1	785.0 831.9	662.2 701.7	362.8 489.3	947.0 281.1	895.7 218.7	707.9 172.7	321.8 78.5
White birch.....	4''-9'' 10'' up	453.0 278.8	441.7 271.8	372.6 229.3	98.7 .....	381.9 72.7	361.2 68.8	285.4 54.4	129.8 24.7
Poplar (all).....	4''-9'' 10'' up	388.8 826.1	379.1 805.5	319.7 679.5	410.2 29.0	902.3 237.0	853.5 224.1	674.5 177.1	306.7 80.5
TOTAL HARDWOODS.....	4''-9'' 10'' up	841.8 1104.9	820.8 1077.3	692.3 908.8	508.9 29.0	1284.2 309.7	1214.7 292.9	959.9 231.5	436.5 105.2
GRAND TOTAL.....	4''-9'' 10'' up	1647.0 1958.0	1605.8 1909.2	1354.5 1610.5	871.7 518.3	2231.2 540.8	2110.4 511.6	1667.8 404.2	758.3 183.7
TOTAL 4'' UP.....		3605.0	3515.0	2965.0	1390.0	2772.0	2622.0	2072.0	942.0



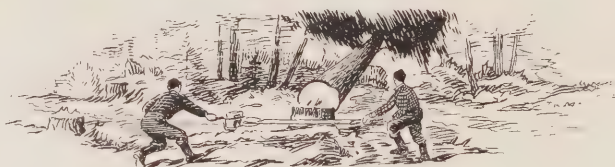
TABLE 38.—*Volume of the primary growing stock in cubic feet per acre.*  
Central Plateau Section—1951

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9"	473.3	457.4	394.0	294.7	597.9	572.8	412.8	224.7
	10" up	203.8	197.0	169.6	143.2	57.7	55.3	39.8	.....
Black spruce.....	4"-9"	986.3	953.2	821.0	255.5	762.5	730.5	526.4	199.8
	10" up	137.0	132.4	114.1	52.0	43.5	41.7	30.0	.....
Balsam fir.....	4"-9"	41.3	40.0	34.4	.....	.....	.....	.....	.....
	10" up	9.1	8.8	7.6	.....	.....	.....	.....	.....
Larch.....	4"-9"	.....	.....	.....	.....	3.1	3.0	2.2	.....
	10" up	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4"-9"	1500.9	1450.6	1249.4	550.2	1363.5	1306.3	941.4	424.5
	10" up	349.9	338.2	291.3	195.2	101.2	97.0	69.8	.....
White birch.....	4"-9"	38.4	37.1	32.0	25.0	42.8	40.9	29.4	20.5
	10" up	12.0	11.6	10.0	.....	2.2	2.2	1.6	.....
Poplar (all).....	4"-9"	27.1	26.2	22.6	34.6	35.1	33.6	24.2	.....
	10" up	11.7	11.3	9.7	.....	5.2	5.0	3.6	.....
TOTAL HARDWOODS.....	4"-9"	65.5	63.3	54.6	59.6	77.9	74.5	53.6	20.5
	10" up	23.7	22.9	19.7	.....	7.4	7.2	5.2	.....
GRAND TOTAL.....	4"-9"	1566.4	1513.9	1304.0	609.8	1441.4	1380.8	995.0	445.0
	10" up	373.6	361.1	311.0	195.2	108.6	104.2	75.0	.....
TOTAL 4" UP.....		1940.0	1875.0	1615.0	805.0	1550.0	1485.0	1070.0	445.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
Jack pine.....	4"-9"	49.5	47.3	38.0	17.4	78.9	74.4	54.6	21.1
	10" up	94.3	90.3	72.5	33.3	22.1	20.9	15.3	5.9
White spruce.....	4"-9"	15.0	14.3	11.5	5.3	.....	.....	.....	.....
	10" up	21.8	20.9	16.8	7.7	.....	.....	.....	.....
Black spruce.....	4"-9"	185.4	177.4	142.5	65.4	58.0	54.7	40.1	15.5
	10" up	32.0	30.6	24.5	11.3	.....	.....	.....	.....
Balsam fir.....	4"-9"	80.0	76.6	61.5	28.2	4.8	4.6	3.4	1.3
	10" up	33.7	32.2	25.9	11.9	4.5	4.2	3.1	1.2
TOTAL CONIFERS.....	4"-9"	329.9	315.6	253.5	116.3	141.7	133.7	98.1	37.9
	10" up	181.8	174.0	139.7	64.2	26.6	25.1	18.4	7.1
White birch.....	4"-9"	439.1	420.0	337.3	154.9	245.2	231.4	169.8	65.6
	10" up	86.1	82.4	66.2	30.4	27.8	26.3	19.3	7.4
Poplar (all).....	4"-9"	1117.1	1068.7	858.3	394.1	1301.5	1228.5	901.3	348.0
	10" up	1191.0	1139.3	915.0	420.1	127.2	120.0	88.1	34.0
TOTAL HARDWOODS.....	4"-9"	1556.2	1488.7	1195.6	549.0	1546.7	1459.9	1071.1	413.6
	10" up	1277.1	1221.7	981.2	450.5	155.0	146.3	107.4	41.4
GRAND TOTAL.....	4"-9"	1886.1	1804.3	1449.1	665.3	1688.4	1593.6	1169.2	451.5
	10" up	1458.9	1395.7	1120.9	514.7	181.6	171.4	125.8	48.5
TOTAL 4" UP.....		3345.0	3200.0	2570.0	1180.0	1870.0	1765.0	1295.0	500.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
Jack pine.....	4"-9"	228.3	220.4	184.3	.....	387.4	364.2	263.7	104.1
	10" up	324.5	313.3	261.9	.....	54.8	51.6	37.3	14.7
White spruce.....	4"-9"	10.4	10.0	8.4	.....	.....	.....	.....	.....
	10" up	83.1	80.3	67.1	.....	.....	.....	.....	.....
Black spruce.....	4"-9"	307.5	296.9	248.3	400.0	323.6	304.3	220.2	87.0
	10" up	173.7	167.7	140.2	.....	33.2	31.2	22.6	8.9
Balsam fir.....	4"-9"	129.3	124.8	104.3	.....	8.4	7.9	5.7	2.2
	10" up	60.5	58.4	48.9	.....	.....	.....	.....	.....
Larch.....	4"-9"	.....	.....	.....	.....	1.7	1.6	1.1	0.4
	10" up	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4"-9"	675.5	652.1	545.3	400.0	721.1	678.0	490.7	193.7
	10" up	641.8	619.7	518.1	.....	88.0	82.8	59.9	23.6



TABLE 38 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4"-9" 10" up	336.5 230.0	324.9 222.0	271.6 185.7	605.8 84.2	205.8 13.6	193.5 12.8	140.1 9.3	55.3 3.7
Poplar (all).....	4"-9" 10" up	328.3 537.9	317.0 519.3	265.0 434.3	..... .....	585.7 60.8	550.8 57.1	398.6 41.4	157.4 16.3
TOTAL HARDWOODS.....	4"-9" 10" up	664.8 767.9	641.9 741.3	536.6 620.0	605.8 84.2	791.5 74.4	744.3 69.9	538.7 50.7	212.7 20.0
GRAND TOTAL.....	4"-9" 10" up	1340.3 1409.7	1294.0 1361.0	1081.9 1138.1	1005.8 84.2	1512.6 162.4	1422.3 152.7	1029.4 110.6	406.4 43.6
TOTAL 4" UP.....		2750.0	2655.0	2220.0	1090.0	1675.0	1575.0	1140.0	450.0

TABLE 39.—Volume of the primary growing stock in cubic feet per acre.  
Central Plateau Section—1955

SPECIES	D.B.H.	CONIFEROUS COVER TYPE											
		HEIGHT CLASS											
		71 Ft. - 90 Ft.				51 Ft. - 70 Ft.				31 Ft. - 50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	..... .....	..... .....	..... .....	..... .....	285.6 69.6	265.0 64.6	197.0 48.0	72.3 17.6	193.6 10.4	169.5 9.1	110.7 5.9	38.3 2.1
White spruce.....	4"-9" 10" up	31.3 1807.6	30.4 1760.1	26.5 1532.9	11.5 664.7	24.3 171.6	22.5 159.2	16.8 118.3	6.2 43.4	5.7 26.9	5.0 23.5	3.3 15.3	1.1 5.4
Black spruce.....	4"-9" 10" up	314.3 1556.5	306.0 1515.7	266.5 1320.0	115.6 572.3	1828.8 345.8	1696.6 320.8	1261.5 238.5	462.7 87.5	1685.2 70.2	1475.6 61.5	963.0 40.1	334.0 13.9
Balsam fir.....	4"-9" 10" up	557.2 87.7	542.6 85.4	472.5 74.4	204.9 32.3	202.8 49.5	188.2 45.9	139.9 34.1	51.3 12.5	54.9 3.7	48.1 3.2	31.4 2.1	10.9 0.7
Larch.....	4"-9" 10" up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	8.1 0.6	7.1 0.5	4.7 0.3	1.6 0.1
TOTAL CONIFERS.....	4"-9" 10" up	902.8 3451.8	879.0 3361.2	765.5 2927.3	332.0 1269.3	2341.5 636.5	2172.3 590.5	1615.2 438.9	592.5 161.0	1947.5 111.8	1705.3 97.8	1113.1 63.7	385.9 22.2
White birch.....	4"-9" 10" up	104.2 551.4	101.5 536.9	88.4 467.6	38.3 202.8	90.5 39.0	83.9 36.2	62.4 26.9	22.9 9.8	33.9 11.7	29.7 10.2	19.3 6.7	6.7 2.3
Poplar (all).....	4"-9" 10" up	..... 319.8	..... 311.4	..... 271.2	..... 117.6	101.8 110.7	94.4 102.7	70.2 76.4	25.8 28.0	46.5 18.6	40.8 16.2	26.6 10.6	9.2 3.7
TOTAL HARDWOODS...	4"-9" 10" up	104.2 871.2	101.5 848.3	88.4 738.8	38.3 320.4	192.3 149.7	178.3 138.9	132.6 103.3	48.7 37.8	80.4 30.3	70.5 26.4	45.9 17.3	15.9 6.0
GRAND TOTAL.....	4"-9" 10" up	1007.0 4323.0	980.5 4209.5	853.9 3666.1	370.3 1589.7	2533.8 786.2	2350.6 729.4	1747.8 542.2	641.2 198.8	2027.9 142.1	1775.8 124.2	1159.0 81.0	401.8 28.2
TOTAL (ALL).....		5330.0	5190.0	4520.0	1960.0	3320.0	3080.0	2290.0	840.0	2170.0	1900.0	1240.0	430.0

TABLE 39 (Cont'd)

SPECIES	D.B.H.	HARDWOOD COVER TYPE											
		HEIGHT CLASS											
		71 Ft. - 90 Ft.				51 Ft. - 70 Ft.				31 Ft. - 50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	.....	19.5 14.2	18.2 13.2	14.8 10.8	7.0 5.0	31.6	27.3	17.6	6.2
White spruce.....	4''-9'' 10'' up	18.1 23.7	17.5 23.1	15.6 20.4	7.0 9.2	11.1 12.5	10.3 11.6	8.4 9.5	3.9 4.5	11.1	9.6	6.2	2.2
Black spruce.....	4''-9'' 10'' up	201.3 103.7	195.2 100.6	173.4 89.3	77.7 40.1	129.9 11.6	120.9 10.8	98.7 8.8	46.3 4.1	63.2	54.5	35.1	12.3
Balsam fir.....	4''-9'' 10'' up	35.8 36.0	34.7 34.9	30.8 31.0	13.8 13.9	51.2 6.1	47.7 5.6	38.9 4.6	18.2 2.2	18.6	16.0	10.3	3.6
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	255.2 163.4	247.4 158.6	219.8 140.7	98.5 63.2	211.7 44.4	197.1 41.2	160.8 33.7	75.4 15.8	124.5	107.4	69.2	24.3
White birch.....	4''-9'' 10'' up	496.8 280.6	481.8 272.2	427.8 241.7	191.9 108.4	324.2 83.6	301.5 77.8	246.3 63.5	115.4 29.8	148.6	128.2	87.6	29.0
Poplar (all).....	4''-9'' 10'' up	1468.7 3315.3	1424.5 3215.5	1264.8 2855.2	567.3 1280.7	2118.9 587.2	1971.1 546.3	1609.6 446.1	754.5 209.1	1508.8 76.1	1301.8 65.6	838.9 42.3	294.8 14.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	1965.5 3595.9	1906.3 3487.7	1692.6 3096.9	759.2 1389.1	2443.1 670.8	2272.6 624.1	1855.9 509.6	869.9 238.9	1657.4 76.1	1430.0 65.6	921.5 42.3	323.8 14.9
GRAND TOTAL.....	4''-9'' 10'' up	2220.7 3759.3	2153.7 3646.3	1912.4 3237.6	857.7 1452.3	2654.8 715.2	2469.7 665.3	2016.7 543.3	945.3 254.7	1781.9 76.1	1537.4 65.6	990.7 42.3	348.1 14.9
TOTAL (ALL).....		5980.0	5800.0	5150.0	2310.0	3370.0	3135.0	2560.0	1200.0	1858.0	1603.0	1033.0	363.0
MIXEDWOODS COVER TYPE													
Jack pine.....	4''-9'' 10'' up	261.2 293.3	256.9 288.6	231.0 259.5	110.0 123.5	94.3 63.4	91.4 61.5	70.7 47.6	50.3 33.8	349.1 23.9	328.1 22.4	246.3 16.8	90.8 6.2
White spruce.....	4''-9'' 10'' up	45.7 397.9	44.9 391.5	40.4 352.0	19.2 167.6	72.9 163.7	70.7 158.7	54.7 122.8	38.9 87.3	24.9 31.2	23.4 29.3	17.5 22.0	6.5 8.1
Black spruce.....	4''-9'' 10'' up	442.5 295.0	435.3 290.2	391.4 261.0	186.4 124.2	730.9 183.9	708.6 178.3	548.4 137.9	389.8 98.1	549.5 36.9	516.4 34.7	387.6 26.1	143.0 9.6
Balsam fir.....	4''-9'' 10'' up	186.8 101.5	183.8 99.9	165.3 89.8	78.7 42.7	242.1 65.5	234.7 63.5	181.6 49.1	129.1 34.9	58.5 12.6	55.0 11.8	41.3 8.9	15.2 3.3
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	.....	6.5	6.1	4.6	1.7
TOTAL CONIFERS.....	4''-9'' 10'' up	936.2 1087.7	920.9 1070.2	828.1 962.3	394.3 458.0	1140.2 476.5	1105.4 462.0	855.4 357.4	608.1 254.1	988.5 104.6	929.0 98.2	697.3 73.8	257.2 27.2
White birch.....	4''-9'' 10'' up	391.3 240.8	385.0 236.9	346.1 213.1	164.8 101.4	480.8 169.8	466.2 164.6	360.7 127.4	256.4 90.6	295.6 19.2	277.8 18.0	208.6 13.5	76.9 5.0
Poplar (all).....	4''-9'' 10'' up	525.8 2363.2	517.2 2324.8	465.1 2090.3	221.4 995.1	697.1 978.6	675.9 948.9	523.0 734.1	371.8 522.0	620.2 127.9	582.8 120.2	437.5 90.3	161.4 33.3
TOTAL HARDWOODS.....	4''-9'' 10'' up	917.1 2604.0	902.2 2561.7	811.2 2303.4	386.2 1096.5	1177.9 1148.4	1142.1 1113.5	883.7 861.5	628.2 612.6	915.8 147.1	860.6 138.2	646.1 103.8	238.3 38.3
GRAND TOTAL.....	4''-9'' 10'' up	1853.3 3691.7	1823.1 3631.9	1639.3 3265.7	780.5 1554.5	2318.1 1624.9	2247.5 1575.5	1739.1 1218.9	1236.3 866.7	1904.3 251.7	1789.6 236.4	1343.4 177.6	495.5 65.5
TOTAL (ALL).....		5545.0	5455.0	4905.0	2335.0	3943.0	3823.0	2958.0	2103.0	2156.0	2026.0	1521.0	561.0

TABLE 40.—*Volume of the primary growing stock in cubic feet per acre.*  
Central Transition Section—1948

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	3.3 160.6	3.2 159.0	3.1 149.7	4.5 220.4	..... .....	..... .....	..... .....	..... .....
Red pine.....	4"-9" 10" up	5.3 61.2	5.3 60.5	5.0 57.0	..... .....	..... .....	..... .....	..... .....	..... .....
Jack pine.....	4"-9" 10" up	372.9 372.9	369.0 368.9	347.7 347.8	108.3 342.9	618.6 61.2	609.2 60.3	564.2 55.8	199.5 24.7
White spruce.....	4"-9" 10" up	53.8 74.4	53.3 73.6	50.2 69.4	72.0 72.1	45.1 14.3	44.5 14.0	41.2 13.0	44.9 21.1
Black spruce.....	4"-9" 10" up	654.5 134.0	647.6 132.6	610.4 125.0	226.5 88.1	601.9 31.7	592.8 31.2	549.0 28.9	255.7 41.6
Balsam fir.....	4"-9" 10" up	75.6 7.5	74.8 7.4	70.5 7.0	51.1 3.3	60.1 5.9	59.2 5.8	54.8 5.4	46.1 .....
White cedar.....	4"-9" 10" up	89.3 145.8	88.4 144.2	83.3 136.0	52.4 75.5	23.0 16.6	22.6 16.4	20.9 15.2	104.7 18.5
Larch.....	4"-9" 10" up	..... .....	..... .....	..... .....	..... .....	28.2 1.5	27.8 1.5	25.7 1.4	..... .....
TOTAL CONIFERS.....	4"-9" 10" up	1254.7 956.4	1241.6 946.2	1170.2 891.9	514.8 802.3	1376.9 131.2	1356.1 129.2	1255.8 119.7	650.9 105.9
White birch.....	4"-9" 10" up	56.7 50.2	56.1 49.7	52.8 46.9	49.5 84.3	62.1 25.4	61.1 25.0	56.7 23.1	17.6 20.6
Poplar (all).....	4"-9" 10" up	20.5 36.5	20.3 36.1	19.2 34.0	8.0 11.1	34.3 20.1	33.8 19.8	31.3 18.4	..... .....
TOTAL HARDWOODS.....	4"-9" 10" up	77.2 86.7	76.4 85.8	72.0 80.9	57.5 95.4	96.4 45.5	94.9 44.8	88.0 41.5	17.6 20.6
GRAND TOTAL.....	4"-9" 10" up	1331.9 1043.1	1318.0 1032.0	1242.2 972.8	572.3 897.7	1473.3 176.7	1451.0 174.0	1343.8 161.2	668.5 126.5
TOTAL 4" UP.....		2375.0	2350.0	2215.0	1470.0	1650.0	1625.0	1505.0	795.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	23.8 53.1	22.6 50.3	19.4 43.2	..... .....	48.8 76.2	44.1 68.9	33.9 53.1	..... .....
White spruce.....	4"-9" 10" up	53.3 60.2	50.6 57.0	43.4 49.0	..... .....	21.0 14.0	19.0 12.6	14.6 9.8	..... .....
Black spruce.....	4"-9" 10" up	27.4 9.2	26.0 8.7	22.4 7.4	..... .....	23.7 3.8	21.4 3.5	16.4 2.7	20.7 .....
Balsam fir.....	4"-9" 10" up	27.1 9.5	25.7 9.0	22.1 7.7	24.5 .....	27.9 2.1	25.2 1.9	19.4 1.5	..... .....
TOTAL CONIFERS.....	4"-9" 10" up	131.6 132.0	124.9 125.0	107.3 107.3	24.5 .....	121.4 96.1	109.7 86.9	84.3 67.1	20.7 .....
White birch.....	4"-9" 10" up	553.1 285.0	524.4 270.2	450.4 232.0	325.7 554.6	483.8 106.2	437.4 96.0	336.7 73.9	185.8 14.0
Poplar (all).....	4"-9" 10" up	639.6 1918.7	606.4 1819.1	520.8 1562.2	240.9 536.1	1337.1 355.4	1208.7 321.3	930.6 247.4	543.6 135.9
Red maple.....	4" 9" 10" up	..... .....	..... .....	..... .....	68.2 .....	..... .....	..... .....	..... .....	..... .....
TOTAL HARDWOODS.....	4"-9" 10" up	1192.7 2203.7	1130.8 2089.3	971.2 1794.2	634.8 1090.7	1820.9 461.6	1646.1 417.3	1267.3 321.3	729.4 149.9
GRAND TOTAL.....	4"-9" 10" up	1324.3 2335.7	1255.7 2214.3	1078.5 1901.5	659.3 1090.7	1942.3 557.7	1755.8 504.2	1351.6 388.4	750.1 149.9
TOTAL 4" UP.....		3660.0	3470.0	2980.0	1750.0	2500.0	2260.0	1740.0	900.0



TABLE 40 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9''	5.9	5.6	5.2	.....	1.5	1.4	1.1	.....
	10'' up	189.2	182.2	168.5	433.2	12.0	11.1	8.9	.....
Red pine.....	4''-9''	0.4	0.4	0.3	.....	.....	.....	.....	.....
	10'' up	36.2	34.8	32.3	.....	.....	.....	.....	.....
Jack pine.....	4''-9''	167.5	161.2	149.1	.....	279.3	259.4	206.9	72.6
	10'' up	311.0	299.4	277.0	.....	164.0	152.3	121.5	42.6
White spruce.....	4''-9''	95.5	91.9	85.0	44.8	103.9	96.5	77.0	51.5
	10'' up	169.7	163.4	151.1	234.9	55.9	51.9	41.4	30.2
Black spruce.....	4''-9''	138.0	132.8	122.9	21.6	215.8	200.5	160.0	80.6
	10'' up	51.0	49.1	45.4	64.6	11.4	10.6	8.4	13.1
Balsam fir.....	4''-9''	103.8	99.8	92.4	130.2	94.1	87.5	69.8	40.4
	10'' up	21.2	20.5	18.9	21.2	7.1	6.6	5.2	3.5
White cedar.....	4''-9''	18.5	17.8	16.5	41.9	10.3	9.5	7.6	.....
	10'' up	39.4	37.9	35.1	132.6	7.7	7.2	5.7	.....
TOTAL CONIFERS.....	4''-9''	529.6	509.5	471.4	238.5	704.9	654.8	522.4	245.1
	10'' up	817.7	787.3	728.3	886.5	258.1	239.7	191.1	89.4
Yellow birch.....	4''-9''	6.9	6.6	6.1	.....	.....	.....	.....	.....
	10'' up	38.8	37.4	34.6	.....	.....	.....	.....	.....
White birch.....	4''-9''	452.5	435.6	402.9	254.1	480.1	446.0	355.7	197.6
	10'' up	254.6	245.1	226.7	381.1	91.4	84.9	67.7	88.8
Poplar (all).....	4''-9''	237.0	228.1	211.0	181.7	515.2	478.5	381.7	165.0
	10'' up	710.9	684.4	633.0	161.1	200.3	186.1	148.4	74.1
TOTAL HARDWOODS.....	4''-9''	696.4	670.3	620.0	435.8	995.3	924.5	737.4	362.6
	10'' up	1004.3	966.9	894.3	542.2	291.7	271.0	216.1	162.9
GRAND TOTAL.....	4''-9''	1226.0	1179.8	1091.4	674.3	1700.2	1579.3	1259.8	607.7
	10'' up	1822.0	1754.2	1622.6	1428.7	549.8	510.7	407.2	252.3
TOTAL 4'' UP.....		3048.0	2934.0	2714.0	2103.0	2250.0	2090.0	1667.0	860.0

TABLE 41.—Volume of the primary growing stock in cubic feet per acre.  
Central Transition Section—1951

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9''	670.9	646.0	488.6	16.7	648.2	630.3	554.0	245.1
	10'' up	549.0	528.6	399.7	87.4	139.4	135.6	119.1	52.7
White spruce.....	4''-9''	37.4	36.0	27.2	81.0	17.1	16.6	14.6	6.5
	10'' up	51.4	49.5	37.5	132.2	10.8	10.5	9.2	4.1
Black spruce.....	4''-9''	812.0	781.9	591.2	42.0	759.4	738.4	648.9	287.2
	10'' up	248.0	238.8	180.6	79.8	88.1	85.7	75.3	33.3
Balsam fir.....	4''-9''	44.8	43.2	32.7	94.7	19.2	18.7	16.4	7.2
	10'' up	5.5	5.3	4.0	.....	0.7	0.7	0.6	0.3
White cedar.....	4''-9''	98.6	94.9	71.8	36.4	36.6	35.6	31.3	13.9
	10'' up	147.2	141.7	107.2	175.1	43.2	42.0	36.9	16.3
Larch.....	4''-9''	17.0	16.3	12.3	.....	46.0	44.6	39.3	17.4
	10'' up	0.8	0.8	0.6	.....	1.9	1.9	1.6	0.7
TOTAL CONIFERS.....	4''-9''	1680.7	1618.3	1223.8	270.8	1526.5	1484.2	1304.5	577.3
	10'' up	1001.9	964.7	729.6	474.5	284.1	276.4	242.7	107.4

TABLE 41 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9'' 10'' up	94.5 38.8	91.0 37.3	68.8 28.2	41.9 50.3	78.9 10.8	76.8 10.5	67.5 9.2	29.8 4.1
Poplar (all).....	4''-9'' 10'' up	53.8 91.3	51.8 87.9	39.2 66.4	8.5 .....	64.6 29.1	62.8 28.3	55.2 24.9	24.4 11.0
TOTAL HARDWOODS.....	4''-9'' 10'' up	148.3 130.1	142.8 125.2	108.0 94.6	50.4 50.3	143.5 39.9	139.6 38.8	122.7 34.1	54.2 15.1
GRAND TOTAL.....	4''-9'' 10'' up	1829.0 1132.0	1761.1 1089.9	1331.8 824.2	321.2 524.8	1670.0 324.0	1623.8 315.2	1427.2 276.8	631.5 122.5
TOTAL 4'' UP.....		2961.0	2851.0	2156.0	846.0	1994.0	1939.0	1704.0	754.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
Jack pine.....	4''-9'' 10'' up	59.8 88.3	58.4 86.1	48.7 71.8	.....	94.7 75.6	86.9 69.4	60.0 47.9	22.2 17.7
White spruce.....	4''-9'' 10'' up	26.7 68.1	26.1 66.4	21.8 55.4	40.2 239.0	19.1 27.7	17.6 25.4	12.1 17.6	4.5 6.5
Black spruce.....	4''-9'' 10'' up	33.3 11.1	32.5 10.9	27.1 9.1	109.8 32.1	19.4 4.0	17.9 3.6	12.3 2.5	4.6 0.9
Balsam fir.....	4''-9'' 10'' up	39.1 5.3	38.2 5.2	31.9 4.3	4.5 .....	25.5 2.2	23.4 2.0	16.1 1.4	6.0 0.5
White cedar.....	4''-9'' 10'' up	3.0 8.8	2.9 8.7	2.4 7.2	.....	0.6 1.6	0.5 1.5	0.4 1.0	0.1 0.4
TOTAL CONIFERS.....	4''-9'' 10'' up	161.9 181.6	158.1 177.3	131.9 147.8	154.5 271.1	159.3 111.1	146.3 101.9	100.9 70.4	37.4 26.0
White birch.....	4''-9'' 10'' up	485.6 307.9	474.2 300.6	395.4 250.7	229.2 423.9	473.6 54.4	434.7 49.9	300.1 34.5	111.0 12.7
Poplar (all).....	4''-9'' 10'' up	881.0 943.0	860.1 920.7	717.4 767.8	47.3 .....	1107.1 223.5	1016.0 205.2	701.5 141.6	259.5 52.4
TOTAL HARDWOODS.....	4''-9'' 10'' up	1366.6 1250.9	1334.3 1221.3	1112.8 1018.5	276.5 423.9	1580.7 277.9	1450.7 255.1	1001.6 176.1	370.5 65.1
GRAND TOTAL.....	4''-9'' 10'' up	1528.5 1432.5	1492.4 1398.6	1244.7 1166.3	431.0 695.0	1740.0 389.0	1597.0 357.0	1102.5 246.5	407.9 91.1
TOTAL 4'' UP.....		2961.0	2891.0	2411.0	1126.0	2129.0	1954.0	1349.0	499.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
White pine.....	4''-9'' 10'' up	.....	.....	.....	.....	0.8 28.0	0.8 25.5	0.6 19.6	.....
Jack pine.....	4''-9'' 10'' up	282.2 319.4	256.8 290.8	203.4 230.2	8.6 24.3	592.2 124.8	541.6 114.1	415.6 87.6	.....
White spruce.....	4''-9'' 10'' up	83.5 208.3	76.0 189.6	60.1 150.2	58.7 245.6	33.8 33.3	30.9 30.5	23.7 23.4	6.8 9.3
Black spruce.....	4''-9'' 10'' up	154.5 86.1	140.6 78.4	111.3 62.1	44.4 101.6	163.0 21.6	149.1 19.8	114.4 15.2	108.3 104.5
Balsam fir.....	4''-9'' 10'' up	87.6 14.7	79.7 13.4	63.1 10.6	21.6 .....	31.0 2.6	28.3 2.4	21.8 1.8	25.9 .....
White cedar.....	4''-9'' 10'' up	18.3 56.9	16.6 51.9	13.2 41.0	6.8 51.8	5.5 11.3	5.0 10.3	3.8 8.0	20.3 73.5
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	2.8
TOTAL CONIFERS.....	4''-9'' 10'' up	626.1 685.4	569.7 624.1	451.1 494.1	140.1 423.3	826.3 221.6	755.7 202.6	579.9 155.6	164.1 187.3
Yellow birch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	4.1 40.0
White birch.....	4''-9'' 10'' up	372.7 355.2	339.3 323.3	268.6 256.1	124.8 253.5	308.0 70.9	281.7 64.8	216.2 49.7	94.8 76.7
Poplar (all).....	4''-9'' 10'' up	325.4 643.2	296.2 585.4	234.6 463.5	16.9 69.4	738.1 233.1	675.0 213.2	518.0 163.6	104.3 23.1

TABLE 41 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Red maple.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	5.6
TOTAL HARDWOODS.....	4"-9" 10" up	698.1 998.4	635.5 908.7	503.2 719.6	141.7 322.9	1046.1 304.0	956.7 278.0	734.2 213.3	208.8 139.8
GRAND TOTAL.....	4"-9" 10" up	1324.2 1683.8	1205.2 1532.8	954.3 1213.7	281.8 746.2	1872.4 525.6	1712.4 480.6	1314.1 368.9	372.9 327.1
TOTAL 4" UP.....		3008.0	2738.0	2168.0	1028.0	2398.0	2193.0	1683.0	700.0

TABLE 42.—Volume of the primary growing stock in cubic feet per acre.  
Clay Belt Section—1948

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	27.1 3.3	25.9 3.2	22.8 2.8	.....	345.6 14.4	334.4 13.9	289.9 12.1	207.2 8.6
White spruce.....	4"-9" 10" up	26.8 107.3	25.7 103.0	22.6 90.6	.....	55.8 38.8	54.0 37.6	46.8 32.6	.....
Black spruce.....	4"-9" 10" up	1563.2 154.6	1500.2 148.4	1319.1 130.5	626.0 93.5	8.8.4 43.6	801.4 42.2	695.2 36.6	224.9 11.8
Balsam fir.....	4"-9" 10" up	280.6 53.4	269.2 51.3	236.7 45.1	186.2 .....	202.8 8.4	196.2 8.2	170.2 7.1	59.0 2.5
White cedar.....	4"-9" 10" up	15.0 12.8	14.4 12.3	12.7 10.8	126.2 244.9	26.5 12.4	25.6 12.0	22.2 10.4	83.2 39.1
Larch.....	4"-9" 10" up	6.7 0.9	6.4 0.9	5.6 0.8	.....	22.0 .....	21.3 .....	18.4 .....	.....
TOTAL CONIFERS.....	4"-9" 10" up	1919.4 332.3	1841.8 319.1	1619.5 280.6	938.4 338.4	1481.1 117.6	1432.9 113.9	1242.7 98.8	574.3 62.0
White birch.....	4"-9" 10" up	10.9 72.6	10.4 69.7	9.2 61.3	.....	40.6 10.1	39.2 9.8	34.0 8.5	.....
Poplar (all).....	4"-9" 10" up	19.5 175.3	18.7 168.3	16.4 148.0	53.2 .....	15.0 25.6	14.5 24.7	12.6 21.4	6.5 11.2
TOTAL HARDWOODS.....	4"-9" 10" up	30.4 247.9	29.1 238.0	25.6 209.3	53.2 .....	55.6 35.7	53.7 34.5	46.6 29.9	6.5 11.2
GRAND TOTAL.....	4"-9" 10" up	1949.8 580.2	1870.9 557.1	1645.1 489.9	991.6 338.4	1536.7 153.3	1486.6 148.4	1289.3 128.7	580.8 73.2
TOTAL 4" UP.....		2530.0	2428.0	2135.0	1330.0	1690.0	1635.0	1418.0	654.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	.....	.....	.....	.....	6.0	5.8	5.2	2.7
White spruce.....	4"-9" 10" up	77.5 180.9	75.6 176.3	68.8 160.4	39.5 92.3	4.5	4.4	3.9	2.0
Black spruce.....	4"-9" 10" up	108.2 27.1	105.6 26.4	96.1 24.0	55.2 13.8	15.1 2.9	14.7 2.8	13.0 2.5	6.7 1.3



TABLE 42 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Balsam fir.....	4''-9'' 10'' up	172.3 57.4	167.9 56.0	152.8 50.9	87.9 29.3	26.8 1.7	26.0 1.7	23.1 1.5	11.9 0.8
White cedar.....	4''-9'' 10'' up	3.0 1.1	2.9 1.1	2.6 1.0	1.5 0.6	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	361.0 266.5	352.0 259.8	320.3 236.3	184.1 136.0	52.4 4.6	50.9 4.5	45.2 4.0	23.3 2.1
White birch.....	4''-9'' 10'' up	291.2 291.1	284.0 283.9	258.3 258.3	148.6 148.5	103.5 9.0	100.6 8.8	89.3 7.8	46.0 4.0
Poplar (all).....	4''-9'' 10'' up	491.5 2399.7	479.3 2340.0	436.0 2128.8	250.7 1224.1	1237.4 93.1	1203.6 90.6	1068.3 80.4	550.2 41.4
TOTAL HARDWOODS.....	4''-9'' 10'' up	782.7 2690.8	763.3 2623.9	694.3 2387.1	399.3 1372.6	1340.9 102.1	1304.2 99.4	1157.6 88.2	596.2 45.4
GRAND TOTAL.....	4''-9'' 10'' up	1143.7 2957.3	1115.3 2883.7	1014.6 2623.4	583.4 1508.6	1393.3 106.7	1355.1 103.9	1202.8 92.2	619.5 47.5
TOTAL 4'' UP.....		4101.0	3999.0	3638.0	2092.0	1500.0	1459.0	1295.0	667.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	.....	325.9 10.1	304.4 9.4	256.7 7.9	.....
White spruce.....	4''-9'' 10'' up	128.2 238.1	126.8 235.5	113.5 210.8	.....	60.0	56.0	47.3	.....
Black spruce.....	4''-9'' 10'' up	388.9 85.4	384.7 84.5	344.4 75.6	224.9	222.7 9.3	208.0 8.7	175.4 7.3	266.5
Balsam fir.....	4''-9'' 10'' up	323.9 138.8	320.4 137.3	286.8 122.9	104.7	165.6 64.4	154.7 60.1	130.4 50.7	156.0 60.7
White cedar.....	4''-9'' 10'' up	5.9 5.7	5.8 5.6	5.2 5.0	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	846.9 468.0	837.7 462.9	749.9 414.3	329.6	774.2 83.8	723.1 78.2	609.8 65.9	422.5 60.7
White birch.....	4''-9'' 10'' up	263.6 349.5	260.8 345.6	233.4 309.4	.....	192.6 21.4	179.9 20.0	151.7 16.8	144.4 109.0
Poplar (all).....	4''-9'' 10'' up	404.9 1523.1	400.5 1506.5	358.5 1348.5	515.0 1094.4	835.2 92.8	780.1 86.7	657.7 73.1	90.4 115.0
TOTAL HARDWOODS.....	4''-9'' 10'' up	668.5 1872.6	661.3 1852.1	591.9 1657.9	515.0 1094.4	1027.8 114.2	960.0 106.7	809.4 89.9	234.8 224.0
GRAND TOTAL.....	4''-9'' 10'' up	1515.4 2340.6	1499.0 2315.0	1341.8 2072.2	844.6 1094.4	1802.0 198.0	1683.1 184.9	1419.2 155.8	657.3 284.7
TOTAL 4'' UP.....		3856.0	3814.0	3414.0	1939.0	2000.0	1868.0	1575.0	942.0

TABLE 43.—Volume of the primary growing stock in cubic feet per acre.  
Clay Belt Section—1949

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	35.3 31.8	34.9 31.4	33.5 30.2	28.1 20.1	94.2 23.5	91.8 22.9	83.6 20.9	.....
White spruce.....	4''-9'' 10'' up	45.6 93.7	45.0 92.7	43.3 89.0	27.6 98.0	52.5 54.5	51.2 53.0	46.6 48.4	4.8 122.5
Black spruce.....	4''-9'' 10'' up	1590.6 223.1	1572.1 220.5	1510.5 211.9	653.6 79.1	1350.5 72.6	1315.8 70.7	1199.1 64.4	.....

TABLE 43 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Balsam fir.....	4"-9" 10" up	134.5 35.8	133.0 35.3	127.7 34.0	150.5 21.5	112.2 11.9	109.3 11.6	99.6 10.6	284.1 150.3
White cedar.....	4"-9" 10" up	20.9 17.8	20.6 17.6	19.8 17.0	21.2 33.8	13.2 6.1	12.9 5.9	11.7 5.4	.....
Larch.....	4"-9" 10" up	9.9 3.0	9.8 3.0	9.4 2.8	61.9 .....	43.7 1.3	42.5 1.3	38.7 1.2	.....
TOTAL CONIFERS.....	4"-9" 10" up	1836.8 405.2	1815.4 400.5	1744.2 384.9	942.9 252.5	1666.3 169.9	1623.5 165.4	1479.3 150.9	288.9 272.8
White birch.....	4"-9" 10" up	25.2 18.7	24.9 18.5	23.9 17.7	13.6 41.4	33.9 21.7	33.0 21.2	30.1 19.3	14.2 390.3
Poplar (all).....	4"-9" 10" up	53.5 240.6	52.9 237.8	50.8 228.5	44.6 425.0	149.7 98.5	145.9 96.0	132.9 87.5	64.3 39.5
TOTAL HARDWOODS.....	4"-9" 10" up	78.7 259.3	77.8 256.3	74.7 246.2	58.2 466.4	183.6 120.2	178.9 117.2	163.0 106.8	78.5 429.8
GRAND TOTAL.....	4"-9" 10" up	1915.5 664.5	1893.2 656.8	1818.9 631.1	1001.1 718.9	1849.9 290.1	1802.4 282.6	1642.3 257.7	367.4 702.6
TOTAL 4" UP.....		2580.0	2550.0	2450.0	1720.0	2140.0	2085.0	1900.0	1070.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
Jack pine.....	4"-9" 10" up	2.6 8.6	2.6 8.5	2.6 8.4	.....	2.3 .....	2.3 .....	2.3 .....	1.6 .....
White spruce.....	4"-9" 10" up	71.1 129.8	70.7 129.1	70.3 128.2	35.4 .....	24.4 12.8	24.4 12.8	24.0 12.6	17.1 9.0
Black spruce.....	4"-9" 10" up	.....	.....	.....	43.6 .....	32.6 4.6	32.6 4.6	32.1 4.5	22.9 3.2
Balsam fir.....	4"-9" 10" up	32.5 15.8	32.3 15.8	32.1 15.7	29.3 14.3	26.8 5.8	26.8 5.8	26.4 5.7	18.8 4.0
Larch.....	4"-9" 10" up	.....	.....	.....	.....	4.7 .....	4.7 .....	4.6 .....	3.3 .....
TOTAL CONIFERS.....	4"-9" 10" up	106.2 176.5	105.6 175.6	105.0 174.3	108.3 14.3	90.8 23.2	90.8 23.2	89.4 22.8	63.7 16.2
White birch.....	4"-9" 10" up	557.4 142.0	554.4 141.2	550.6 140.3	196.8 255.6	410.2 55.4	410.0 55.4	403.5 54.5	287.2 38.8
Poplar (all).....	4"-9" 10" up	950.1 1787.8	945.0 1778.2	938.6 1766.2	412.8 1737.2	1452.9 295.5	1452.3 295.3	1429.2 290.6	1017.2 206.9
TOTAL HARDWOODS.....	4"-9" 10" up	1507.5 1929.8	1499.4 1919.4	1489.2 1906.5	609.6 1992.8	1863.1 350.9	1862.3 350.7	1832.7 345.1	1304.4 245.7
GRAND TOTAL.....	4"-9" 10" up	1613.7 2106.3	1605.0 2095.0	1594.2 2080.8	717.9 2007.1	1953.9 374.1	1953.1 373.9	1922.1 367.9	1368.1 261.9
TOTAL 4" UP.....		3720.0	3700.0	3675.0	2725.0	2328.0	2327.0	2290.0	1630.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
Jack pine.....	4"-9" 10" up	40.9 104.3	40.8 103.8	39.8 101.5	.....	65.7 46.8	65.3 46.6	62.5 44.5	36.1 25.7
White spruce.....	4"-9" 10" up	196.6 443.9	195.8 442.0	191.4 432.0	53.7 18.0	119.3 60.7	118.7 60.3	113.4 57.7	65.5 33.3
Black spruce.....	4"-9" 10" up	320.2 98.3	318.8 97.9	311.6 95.7	52.9 9.0	398.4 20.1	396.3 20.0	378.8 19.1	218.7 11.0
Balsam fir.....	4"-9" 10" up	264.9 106.6	263.7 106.2	257.8 103.8	179.4 75.4	122.8 34.7	122.2 34.5	116.8 32.9	6.4 19.0
White cedar.....	4"-9" 10" up	9.2 7.8	9.2 7.8	9.0 7.6	6.6 15.7	5.4 14.8	5.4 14.7	5.2 14.0	3.0 8.1
Larch.....	4"-9" 10" up	.....	.....	.....	.....	26.5 2.8	26.3 2.8	25.1 2.7	14.6 1.5
TOTAL CONIFERS.....	4"-9" 10" up	831.8 760.9	828.3 757.7	809.6 740.6	292.6 118.1	738.1 179.9	734.2 178.9	701.8 170.9	405.3 98.6

TABLE 43 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4"-9" 10" up	236.1 190.9	235.1 190.1	229.8 185.8	112.2 70.9	274.7 42.5	273.3 42.3	261.2 40.4	150.8 23.3
Poplar (all).....	4"-9" 10" up	353.3 1897.0	351.8 1889.0	343.9 1846.3	210.6 1669.6	754.0 260.8	749.9 259.4	716.8 247.9	413.9 143.1
TOTAL HARDWOODS.....	4"-9" 10" up	589.4 2087.9	586.9 2079.1	573.7 2032.1	322.8 1740.5	1028.7 303.3	1023.2 301.7	978.0 288.3	564.7 166.4
GRAND TOTAL.....	4"-9" 10" up	1421.2 2848.8	1415.2 2836.8	1383.3 2772.7	615.4 1858.6	1766.8 483.2	1757.4 480.6	1679.8 459.2	970.0 265.0
TOTAL 4" UP.....		4270.0	4252.0	4156.0	2474.0	2250.0	2238.0	2139.0	1235.0

TABLE 44.—Volume of the primary growing stock in cubic feet per acre.  
Coastal Plain Section—1954

SPECIES	D.B.H.	CONIFEROUS COVER TYPE											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	.....	.....	.....	.....	300.8 119.9	266.8 106.4	175.7 70.0	61.3 24.5	127.5 9.2	105.2 7.6	65.7 4.7	24.4 1.8
White spruce.....	4"-9" 10" up	94.2 3154.8	88.4 2961.1	77.5 2595.2	33.4 1118.0	56.6 301.7	50.2 267.8	33.1 176.2	11.5 61.6	7.4 2.9	6.1 2.4	3.8 1.5	1.4 0.6
Black spruce.....	4"-9" 10" up	4.5 18.3	4.2 17.2	3.7 15.1	1.6 6.5	1793.1 473.8	1591.0 420.4	1047.4 276.7	366.0 96.7	2039.6 165.4	1682.9 136.5	1050.2 85.2	390.7 31.7
Balsam fir.....	4"-9" 10" up	569.8 547.4	534.8 513.8	468.7 450.3	201.9 194.0	313.9 83.4	278.5 74.0	183.3 48.7	64.1 17.0	119.3 7.1	98.5 5.8	61.5 3.6	22.8 1.4
White cedar.....	4"-9" 10" up	13.3 20.9	12.5 19.6	11.0 17.1	4.7 7.4	25.0 2.2	22.3 1.9	14.6 1.3	5.2 0.4	6.3 1.4	5.2 1.2	3.3 0.7	1.2 0.3
Larch.....	4"-9" 10" up	.....	.....	.....	.....	8.6 7.0	7.6 6.2	5.0 4.1	1.8 1.4	21.3 1.9	17.7 1.5	11.0 1.0	4.0 0.4
TOTAL CONIFERS.....	4"-9" 10" up	681.8 3741.4	639.9 3511.7	560.9 3077.7	241.6 1325.9	2498.0 988.0	2216.4 876.7	1459.1 577.0	509.9 201.6	2321.4 187.9	1915.6 155.0	1195.5 96.7	444.5 36.2
White birch.....	4"-9" 10" up	158.9 211.6	149.2 198.6	130.8 174.0	56.3 75.0	101.3 62.3	89.9 55.3	59.2 36.4	20.7 12.7	17.5 21.2	14.4 17.5	9.0 10.9	3.3 4.1
Poplar (all).....	4"-9" 10" up	.....	.....	.....	.....	83.4 162.0	74.0 143.7	48.7 94.6	17.0 33.1	22.3 8.7	18.3 7.2	11.4 4.5	4.2 1.7
TOTAL HARDWOODS.....	4"-9" 10" up	158.9 1117.9	149.2 1049.2	130.8 919.6	56.3 396.2	184.7 224.3	163.9 199.0	107.9 131.0	37.7 45.8	39.8 29.9	32.7 24.7	20.4 15.4	7.5 5.8
GRAND TOTAL.....	4"-9" 10" up	840.7 4859.3	789.1 4560.9	691.7 3997.3	297.9 1722.1	2682.7 1212.3	2380.3 1075.7	1567.0 708.0	547.6 247.4	2361.2 217.8	1948.3 179.7	1215.9 112.1	452.0 42.0
TOTAL (ALL).....		5700.0	5350.0	4689.0	2020.0	3895.0	3456.0	2275.0	795.0	2579.0	2128.0	1328.0	494.0
		HARDWOOD COVER TYPE											
White spruce.....	4"-9" 10" up	18.1 .....	16.5 .....	11.2 .....	4.0 .....	25.8 19.0	23.2 17.0	15.1 11.0	4.9 3.6	15.3 .....	13.0 .....	8.2 .....	2.8 .....
Black spruce.....	4"-9" 10" up	3.6 .....	3.3 .....	2.3 .....	0.8 .....	68.5 5.2	61.6 4.6	40.1 3.0	12.9 1.0	82.7 .....	70.0 .....	44.1 .....	15.2 .....
Balsam fir.....	4"-9" 10" up	97.9 32.4	89.4 29.6	60.7 20.1	21.8 7.2	31.6 .....	28.3 .....	18.4 .....	6.0 .....	59.0 11.4	49.9 9.7	31.4 6.1	10.8 2.1
Larch.....	4"-9" 10" up	.....	.....	.....	.....	.....	.....	.....	.....	19.9 .....	16.8 .....	10.6 .....	3.7 .....
TOTAL CONIFERS.....	4"-9" 10" up	119.6 32.4	109.2 29.6	74.2 20.1	26.6 7.2	125.9 24.2	113.1 21.6	73.6 14.0	23.8 4.6	176.9 11.4	149.7 9.7	94.3 6.1	32.5 2.1



TABLE 44 (Cont'd)

SPECIES	D.B.H.	HARDWOOD COVER TYPE (Cont'd)											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4"-9" 10" up	108.6	99.1	67.3	24.1	115.8	104.0	67.7	21.9	165.3 23.0	140.0 19.4	88.2 12.2	30.4 4.2
Poplar (all).....	4"-9" 10" up	1823.6 1534.8	1664.9 1401.2	1130.7 951.7	405.1 341.0	1791.9 575.2	1608.1 516.2	1046.7 336.0	338.9 108.8	1006.6 147.8	852.1 125.1	536.5 78.7	184.7 27.1
TOTAL HARDWOODS.....	4"-9" 10" up	1932.2 1534.8	1764.0 1401.2	1198.0 951.7	429.2 341.0	1907.7 575.2	1712.1 516.2	1114.4 336.0	360.8 108.8	1171.9 170.8	992.1 144.5	624.7 90.9	215.1 31.3
GRAND TOTAL.....	4"-9" 10" up	2051.8 1567.2	1873.2 1430.8	1272.2 971.8	455.8 348.2	2033.6 599.4	1825.2 537.8	1188.0 350.0	384.6 113.4	1348.8 182.2	1141.8 154.2	719.0 97.0	247.6 33.4
TOTAL (ALL).....		3619.0	3304.0	2244.0	804.0	2633.0	2363.0	1538.0	498.0	1531.0	1296.0	816.0	281.0
MIXEDWOODS COVER TYPE													
Jack pine.....	4"-9" 10" up	27.7 226.5	26.3 215.4	18.8 153.4	6.7 54.5	30.8 85.4	28.3 78.4	21.6 59.9	8.0 22.1	129.8 .....	114.8 .....	73.9 .....	22.9 .....
White spruce.....	4"-9" 10" up	221.8 1433.6	210.9 1362.8	150.2 970.8	53.4 345.1	115.5 477.0	106.0 437.8	81.0 334.2	29.9 123.4	73.8 .....	65.2 .....	42.1 .....	13.1 .....
Black spruce.....	4"-9" 10" up	22.6 .....	21.5 .....	15.3 .....	5.4 .....	226.5 144.8	207.9 132.9	158.7 101.5	58.6 37.4	688.6 39.3	608.8 34.7	392.3 22.4	121.8 6.9
Balsam fir.....	4"-9" 10" up	358.5 404.3	340.8 384.3	242.8 273.7	86.3 97.3	348.7 258.8	320.1 237.5	244.4 181.3	90.2 66.9	73.8 .....	65.2 .....	42.1 .....	13.1 .....
White cedar.....	4"-9" 10" up	7.5 37.7	7.1 35.9	5.0 25.6	1.8 9.1	3.8 7.4	3.5 6.8	2.7 5.2	1.0 1.9	.....	.....	.....	.....
Larch.....	4"-9" 10" up	.....	.....	.....	.....	26.2	24.1	18.4	6.8	28.8 24.6	25.5 21.8	16.4 14.0	5.1 4.3
TOTAL CONIFERS.....	4"-9" 10" up	638.1 2102.1	606.6 1998.4	432.1 1423.5	153.6 506.0	751.5 973.4	689.9 893.4	526.8 682.1	194.5 251.7	994.8 63.9	879.5 56.5	566.8 36.4	176.0 11.2
White birch.....	4"-9" 10" up	253.2 328.8	240.6 312.6	171.4 222.7	60.9 79.2	243.4 255.4	223.4 234.4	170.6 178.9	63.0 66.0	421.1 98.1	372.2 86.8	239.9 55.9	74.4 17.4
Poplar (all).....	4"-9" 10" up	281.7 2046.1	267.7 1945.1	190.7 1385.6	67.8 492.5	462.5 1063.8	424.5 976.4	324.1 745.5	119.6 275.2	612.2 354.9	541.2 313.8	348.8 202.2	108.2 62.8
TOTAL HARDWOODS.....	4"-9" 10" up	534.9 2374.9	508.3 2257.7	362.1 1608.3	128.7 571.7	705.9 1319.2	647.9 1210.8	494.7 924.4	182.6 341.2	1033.3 453.0	913.4 400.6	588.7 258.1	182.6 80.2
GRAND TOTAL.....	4"-9" 10" up	1173.0 4477.0	1114.9 4256.1	794.2 3031.8	282.3 1077.7	1457.4 2292.6	1337.8 2104.2	1021.5 1606.5	377.1 592.9	2028.1 516.9	1792.9 457.1	1155.5 294.5	358.6 91.4
TOTAL (ALL).....		5650.0	5371.0	3826.0	1360.0	3750.0	3442.0	2628.0	970.0	2545.0	2250.0	1450.0	450.0

TABLE 45.—Volume of the primary growing stock in cubic feet per acre.  
English River Section—1951-1952

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	.....	.....	.....	.....	2.0	1.9	1.4	.....
Red pine.....	4"-9" 10" up	0.5 18.1	0.5 17.1	0.4 13.5	.....	22.5 5.8	20.8 5.4	15.8 4.1	.....
Jack pine.....	4"-9" 10" up	526.8 504.2	497.2 475.7	394.3 377.4	481.1 161.2	785.5 113.2	727.3 104.8	552.6 79.7	473.4 23.9
White spruce.....	4"-9" 10" up	50.6 141.2	47.8 133.2	37.9 105.7	11.5 9.2	18.6 36.0	17.3 33.3	13.1 25.3	15.6 .....
Black spruce.....	4"-9" 10" up	661.1 135.4	623.9 127.8	494.8 101.4	109.6 71.6	564.0 39.2	522.1 36.3	396.8 27.6	49.3 .....
Balsam fir.....	4"-9" 10" up	155.8 25.4	147.1 23.9	116.6 19.0	17.8 .....	101.2 14.2	93.7 13.1	71.2 10.0	10.6 .....
TOTAL CONIFERS.....	4"-9" 10" up	1394.8 824.3	1316.5 777.7	1044.0 617.0	620.0 242.0	1493.8 208.4	1383.1 192.9	1050.9 146.7	548.9 23.9

TABLE 45 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9'' 10'' up	72.5 31.4	68.4 29.6	54.3 23.5	20.7 .....	53.4 13.4	49.5 12.4	37.6 9.4	10.7 10.5
Poplar (all).....	4''-9'' 10'' up	89.3 251.7	84.3 237.5	66.9 188.3	26.5 29.8	147.1 107.9	136.2 99.9	103.5 75.9	30.0 .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	161.8 283.1	152.7 267.1	121.2 211.8	47.2 29.8	200.5 121.3	185.7 112.3	141.1 85.3	40.7 10.5
GRAND TOTAL.....	4''-9'' 10'' up	1556.6 1107.4	1469.2 1044.8	1165.2 828.8	667.2 271.8	1694.3 329.7	1568.8 305.2	1192.0 232.0	589.6 34.4
TOTAL 4'' UP.....		2664.0	2514.0	1994.0	939.0	2024.0	1874.0	1424.0	624.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
Jack pine.....	4''-9'' 10'' up	24.1 26.0	23.5 25.3	20.4 21.9	59.4 .....	41.0 51.6	39.3 49.5	31.2 39.3	65.9 .....
White spruce.....	4''-9'' 10'' up	23.3 61.2	22.7 59.5	19.7 51.5	.....	24.7 103.4	23.7 99.2	18.8 78.7	.....
Black spruce.....	4''-9'' 10'' up	18.4 13.3	17.8 13.0	15.5 11.2	42.6 .....	11.8 .....	11.3 .....	9.0 .....	.....
Balsam fir.....	4''-9'' 10'' up	45.1 13.0	44.0 12.6	38.0 10.9	.....	41.5 17.6	39.8 16.9	31.6 13.4	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	110.9 113.5	108.0 110.4	93.6 95.5	102.0 .....	119.0 172.6	114.1 165.6	90.6 131.4	65.9 .....
White birch.....	4''-9'' 10'' up	234.6 119.2	228.3 116.1	197.7 100.5	19.8 .....	187.8 13.1	180.3 12.5	143.1 9.9	211.2 .....
Poplar (all).....	4''-9'' 10'' up	905.1 1156.7	881.2 1126.0	762.9 974.8	356.0 512.2	1046.1 431.4	1003.6 413.9	796.5 328.5	362.9 .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	1137.7 1277.9	1109.5 1242.1	960.6 1075.3	375.8 512.2	1233.9 444.5	1183.9 426.4	939.6 338.4	574.1 .....
GRAND TOTAL.....	4''-9'' 10'' up	1248.7 1391.3	1217.5 1352.5	1054.2 1170.8	477.8 512.2	1352.9 617.1	1298.0 592.0	1030.2 469.8	640.0 .....
TOTAL 4'' UP.....		2640.0	2570.0	2225.0	990.0	1970.0	1890.0	1500.0	640.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
White pine.....	4''-9'' 10'' up	.....	.....	.....	33.5	.....	.....	.....	.....
Red pine.....	4''-9'' 10'' up	.....	.....	.....	.....	2.2 0.3	2.0 0.3	1.5 0.2	.....
Jack pine.....	4''-9'' 10'' up	155.2 282.0	146.8 266.6	117.0 212.6	97.1 180.4	290.5 138.0	267.7 127.2	200.7 95.3	255.8 94.6
White spruce.....	4''-9'' 10'' up	103.1 267.8	97.5 253.3	77.8 201.9	31.0 97.8	60.7 98.7	56.0 91.0	42.0 68.2	.....
Black spruce.....	4''-9'' 10'' up	219.1 105.5	207.2 99.8	165.2 79.5	46.1 .....	203.7 35.4	187.8 32.6	140.8 24.4	44.7 .....
Balsam fir.....	4''-9'' 10'' up	229.5 42.1	217.0 39.8	173.0 31.7	5.0 11.7	202.3 34.3	186.5 31.6	139.8 23.7	18.0 .....
TOTAL CONIFERS.....	4''-9'' 10'' up	706.9 697.4	668.5 659.5	533.0 525.7	179.2 323.4	759.4 306.7	700.0 282.7	524.8 211.8	318.5 94.6
White birch.....	4''-9'' 10'' up	171.9 63.2	162.6 59.8	129.6 47.7	145.5 .....	171.9 34.9	158.4 32.2	118.7 24.1	51.9 .....
Poplar (all).....	4''-9'' 10'' up	508.5 1164.1	480.8 1100.8	383.3 877.7	146.4 252.5	757.7 460.4	698.3 424.4	523.5 318.1	188.2 67.8
TOTAL HARDWOODS.....	4''-9'' 10'' up	680.4 1227.3	643.4 1160.6	512.9 925.4	291.9 252.5	929.6 495.3	856.7 456.6	642.2 342.2	240.1 67.8
GRAND TOTAL.....	4''-9'' 10'' up	1387.3 1924.7	1311.9 1820.1	1045.9 1451.1	471.1 575.9	1689.0 802.0	1556.7 739.3	1167.0 554.0	558.6 162.4
TOTAL 4'' UP.....		3312.0	3132.0	2497.0	1047.0	2491.0	2296.0	1721.0	721.0

TABLE 46.—*Volume of the primary growing stock in cubic feet per acre.*  
Huron Section—1954-1955

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9''	26.3	24.1	16.9	26.4	23.1	15.2	.....
	10'' up	294.9	269.2	189.1	72.9	63.9	41.8	
White spruce.....	4''-9''	10.6	9.7	6.8	36.1	31.6	20.7	.....
	10'' up	36.4	33.2	23.4	36.0	31.5	20.6	
Black spruce.....	4''-9''	4.5	4.1	2.9	10.8	9.6	6.2	.....
	10'' up	3.3	3.1	2.1	2.8	2.4	1.6	
Balsam fir.....	4''-9''	31.0	28.3	19.9	51.5	45.1	29.5	.....
	10'' up	8.2	7.5	5.2	6.9	6.1	4.0	
Hemlock.....	4''-9''	54.0	49.4	34.7	16.0	14.0	9.2	.....
	10'' up	141.8	129.5	90.9	19.1	16.7	10.9	
White cedar.....	4''-9''	855.6	781.6	548.9	1004.4	879.6	575.9	.....
	10'' up	575.2	525.4	369.0	180.0	157.7	103.2	
Red cedar.....	4''-9''	72.3	66.0	46.4	49.1	43.0	28.1	.....
	10'' up	42.6	38.9	27.3	9.3	8.2	5.4	
Larch.....	4''-9''	14.3	13.1	9.1	51.5	45.1	29.5	.....
	10'' up	4.0	3.6	2.6	5.0	4.4	2.9	
TOTAL CONIFERS.....	4''-9''	1068.6	976.3	685.6	1245.8	1091.1	714.3	.....
	10'' up	1106.4	1010.4	709.6	332.0	290.9	190.4	
Sugar maple.....	4''-9''	5.2	4.8	3.4	4.2	3.7	2.4	.....
	10'' up	60.1	54.8	38.5	5.5	4.8	3.2	
Soft maple.....	4''-9''	4.7	4.2	3.0	3.0	2.7	1.8	.....
	10'' up	5.8	5.3	3.7	4.8	4.1	2.7	
White birch.....	4''-9''	17.2	15.7	11.1	25.1	21.9	14.4	.....
	10'' up	19.4	17.7	12.4	10.0	8.8	5.7	
Yellow birch.....	4''-9''	15.1	13.8	9.7	10.6	9.3	6.1	.....
	10'' up	18.8	17.2	12.1	6.9	6.1	4.0	
Beech.....	4''-9''	1.7	1.6	1.1	0.5	0.4	0.3	.....
	10'' up	16.6	15.1	10.6	1.5	1.3	0.8	
Elm.....	4''-9''	29.9	27.3	19.2	69.9	61.2	40.0	.....
	10'' up	108.5	99.1	69.6	95.7	83.8	54.9	
Ironwood.....	4''-9''	5.6	5.2	3.6	2.0	1.7	1.1	.....
	10'' up	2.2	2.0	1.4	.....	.....	.....	
Red oak.....	4''-9''	0.7	0.7	0.5	.....	.....	.....	.....
	10'' up	12.4	11.2	7.9	.....	.....	.....	
White oak.....	4''-9''	10.2	9.3	6.5	5.6	4.9	3.2	.....
	10'' up	23.7	21.7	15.3	4.1	3.6	2.4	
Poplar (all).....	4''-9''	11.4	10.4	7.3	40.2	35.2	23.1	.....
	10'' up	19.9	18.2	12.8	45.5	39.9	26.1	
Black ash.....	4''-9''	7.2	6.7	4.6	10.6	9.3	6.1	.....
	10'' up	0.6	0.5	0.4	1.1	0.9	0.6	
White ash.....	4''-9''	1.3	1.2	0.8	2.1	1.8	1.2	.....
	10'' up	6.5	6.0	4.2	1.8	1.6	1.0	
Basswood.....	4''-9''	1.7	1.6	1.1	2.0	1.7	1.1	.....
	10'' up	19.2	17.5	12.3	7.7	6.8	4.5	
Black cherry.....	4''-9''	.....	.....	.....	0.7	0.6	0.4	.....
	10'' up	.....	.....	.....	1.3	1.1	0.7	
Butternut.....	4''-9''	.....	.....	.....	0.5	0.4	0.3	.....
	10'' up	.....	.....	.....	1.5	1.3	0.8	
Hickory.....	4''-9''	3.7	3.4	2.4	3.7	3.3	2.2	.....
	10'' up	6.7	6.1	4.3	2.1	1.8	1.2	
TOTAL HARDWOODS.....	4''-9''	115.6	105.9	74.3	180.7	158.1	103.7	.....
	10'' up	320.4	292.4	205.5	189.5	165.9	108.6	
GRAND TOTAL.....	4''-9''	1184.2	1082.2	759.9	1426.5	1249.2	818.0	.....
	10'' up	1426.8	1302.8	915.1	521.5	456.8	299.0	
TOTAL 4'' UP.....		2611.0	2385.0	1675.0	1948.0	1706.0	1117.0	.....



TABLE 46 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9''	3.1	3.0	2.4	11.8	10.6	7.6	4.7
	10'' up	37.9	36.7	29.9	17.4	15.7	11.1	21.5
White spruce.....	4''-9''	.....	.....	.....	0.7	0.6	0.5	0.4
	10'' up	.....	.....	.....	0.7	0.6	0.4	0.7
Balsam fir.....	4''-9''	.....	.....	.....	1.3	1.1	0.9	0.8
	10'' up	.....	.....	.....	0.1	0.1	.....	0.1
Hemlock.....	4''-9''	3.8	3.6	3.0	3.2	2.9	2.0	2.5
	10'' up	9.9	9.6	7.8	5.1	4.6	3.3	8.3
White cedar.....	4''-9''	8.1	7.9	6.4	21.4	19.3	13.7	8.5
	10'' up	2.8	2.7	2.2	6.4	5.7	4.1	2.7
TOTAL CONIFERS.....	4''-9''	15.0	14.5	11.8	38.4	34.5	24.7	16.9
	10'' up	50.6	49.0	39.9	29.7	26.7	18.9	33.3
Sugar maple.....	4''-9''	155.7	150.6	122.7	190.9	171.7	122.3	140.0
	10'' up	823.8	796.3	648.8	73.2	65.8	46.8	228.5
Soft maple.....	4''-9''	81.8	79.1	64.5	151.2	136.0	96.8	81.0
	10'' up	402.5	389.1	316.9	54.5	49.0	34.9	138.6
White birch.....	4''-9''	3.0	2.9	2.4	32.1	28.9	20.5	4.7
	10'' up	5.2	5.0	4.1	4.0	3.6	2.6	3.9
Yellow birch.....	4''-9''	7.4	7.1	5.8	6.0	5.5	3.9	4.0
	10'' up	6.3	6.1	5.0	2.3	2.0	1.4	2.3
Beech.....	4''-9''	30.6	29.6	24.1	21.2	19.0	13.5	20.8
	10'' up	158.2	152.9	124.6	14.9	13.5	9.6	41.1
Elm.....	4''-9''	105.0	101.5	82.7	179.7	161.6	115.1	98.7
	10'' up	516.1	498.9	406.5	131.7	118.4	84.3	223.3
Ironwood.....	4''-9''	21.3	20.6	16.8	23.9	21.5	15.3	11.6
	10'' up	3.3	3.2	2.6	1.1	1.0	0.7	1.6
Red oak.....	4''-9''	3.0	2.9	2.4	49.0	44.1	31.4	7.3
	10'' up	65.4	63.2	51.5	30.2	27.1	19.3	35.0
White oak.....	4''-9''	3.7	3.6	2.9	25.4	22.8	16.2	8.8
	10'' up	23.7	22.9	18.6	12.1	11.0	7.8	23.3
Poplar (all).....	4''-9''	2.7	2.6	2.1	119.8	107.7	76.7	12.0
	10'' up	16.4	15.9	13.0	31.7	28.5	20.3	15.8
Black ash.....	4''-9''	11.0	10.6	8.7	20.0	18.0	12.8	9.8
	10'' up	2.7	2.6	2.1	0.9	0.8	0.6	1.2
White ash.....	4''-9''	9.4	9.1	7.4	31.6	28.4	20.3	10.8
	10'' up	39.8	38.5	31.4	14.3	12.8	9.1	22.8
Basswood.....	4''-9''	10.7	10.4	8.4	28.9	26.0	18.5	10.5
	10'' up	123.4	119.2	97.2	32.3	29.0	20.7	43.0
Black cherry.....	4''-9''	2.7	2.6	2.1	10.6	9.6	6.8	2.5
	10'' up	2.8	2.7	2.2	1.9	1.7	1.2	2.4
Butternut.....	4''-9''	0.2	0.2	0.2	3.1	2.8	2.0	0.9
	10'' up	10.7	10.4	8.4	3.9	3.5	2.5	4.3
Hickory.....	4''-9''	6.7	6.5	5.3	15.0	13.5	9.6	6.7
	10'' up	15.2	14.7	11.9	4.5	4.0	2.9	8.6
TOTAL HARDWOODS.....	4''-9''	454.9	439.9	358.5	908.4	817.1	581.7	430.1
	10'' up	2215.5	2141.6	1744.8	413.5	371.7	264.7	795.7
GRAND TOTAL.....	4''-9''	469.9	454.4	370.3	946.8	851.6	606.4	447.0
	10'' up	2266.1	2190.6	1784.7	443.2	398.4	283.6	829.0
TOTAL 4'' UP.....		2736.0	2645.0	2155.0	1390.0	1250.0	890.0	1276.0

TABLE 46 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9''	14.9	14.0	10.4	54.5	46.6	37.5	32.7
	10'' up	192.2	180.5	134.5	62.3	53.2	42.7	110.8
Red pine.....	4''-9''	.....	.....	.....	2.9	2.5	2.0	0.6
	10'' up	2.7	2.6	1.9	2.0	1.7	1.4	1.9
White spruce.....	4''-9''	3.4	3.2	2.4	22.4	19.1	15.4	4.7
	10'' up	10.2	9.6	7.1	17.1	14.6	11.7	9.1
Black spruce.....	4''-9''	.....	.....	.....	3.0	2.5	2.1	0.3
	10'' up	.....	.....	.....	0.3	0.3	0.2	0.3
Balsam fir.....	4''-9''	11.2	10.5	7.9	35.8	30.6	24.6	13.6
	10'' up	7.9	7.4	5.5	2.0	1.7	1.4	3.5
Hemlock.....	4''-9''	58.2	54.6	40.7	9.1	7.8	6.3	33.3
	10'' up	192.5	180.8	134.8	10.6	9.1	7.3	61.4
White cedar.....	4''-9''	188.7	177.2	132.1	297.1	253.8	204.1	178.8
	10'' up	236.4	222.0	165.4	54.9	46.9	37.7	76.2
Red cedar.....	4''-9''	6.3	5.9	4.4	4.2	3.6	2.9	2.9
	10'' up	4.6	4.3	3.2	0.7	0.6	0.5	1.9
Larch.....	4''-9''	3.2	3.0	2.3	14.0	12.0	9.6	1.8
	10'' up	2.2	2.1	1.5	2.5	2.1	1.7	1.6
TOTAL CONIFERS.....	4''-9''	285.9	268.4	200.2	443.0	378.5	304.5	268.7
	10'' up	648.7	609.3	453.9	152.4	130.2	104.6	266.7
Sugar maple.....	4''-9''	45.2	42.5	31.6	32.9	28.1	22.6	38.2
	10'' up	240.9	226.2	168.6	16.5	14.1	11.3	64.0
Soft maple.....	4''-9''	24.4	22.9	17.1	21.1	18.1	14.5	36.8
	10'' up	92.8	87.1	64.9	13.4	11.4	9.2	63.8
White birch.....	4''-9''	14.6	13.7	10.2	66.6	56.8	45.7	26.6
	10'' up	29.0	27.3	20.3	12.4	10.6	8.5	19.3
Yellow birch.....	4''-9''	35.6	33.4	24.9	18.9	16.1	13.0	22.0
	10'' up	84.3	79.2	59.0	7.4	6.4	5.1	23.1
Beech.....	4''-9''	11.5	10.8	8.1	3.3	2.8	2.3	6.1
	10'' up	83.9	78.8	58.7	1.6	1.4	1.1	15.6
Elm.....	4''-9''	95.7	89.9	67.0	213.5	182.3	146.6	95.2
	10'' up	670.0	629.2	468.9	197.8	168.9	135.9	278.9
Ironwood.....	4''-9''	8.9	8.4	6.2	7.8	6.6	5.3	9.9
	10'' up	2.0	1.8	1.4	0.4	0.4	0.3	0.7
Red oak.....	4''-9''	4.3	4.1	3.0	23.5	20.1	16.1	7.1
	10'' up	66.6	62.4	46.6	14.3	12.2	9.9	26.3
White oak.....	4''-9''	7.4	6.9	5.1	14.4	12.3	9.9	14.5
	10'' up	33.5	31.5	23.5	10.3	8.8	7.0	33.4
Poplar (all).....	4''-9''	3.1	2.9	2.2	171.4	146.4	117.7	31.2
	10'' up	26.9	25.3	18.8	123.1	105.1	84.6	74.4
Black ash.....	4''-9''	25.0	23.5	17.5	29.9	25.5	20.5	20.6
	10'' up	7.7	7.2	5.4	1.4	1.2	1.0	2.6
White ash.....	4''-9''	6.3	5.9	4.4	7.1	6.0	4.9	4.7
	10'' up	26.4	24.8	18.5	4.4	3.8	3.0	10.4
Basswood.....	4''-9''	12.4	11.7	8.7	8.1	6.9	5.6	8.9
	10'' up	112.9	106.0	79.0	14.9	12.8	10.2	34.4
Black cherry.....	4''-9''	4.0	3.7	2.8	2.9	2.5	2.0	1.8
	10'' up	1.5	1.4	1.0	0.4	0.3	0.3	1.6
Butternut.....	4''-9''	2.1	1.9	1.4	1.0	0.8	0.7	0.7
	10'' up	6.1	5.8	4.3	2.3	2.0	1.6	2.3
Hickory.....	4''-9''	3.0	2.8	2.1	3.7	3.1	2.5	1.6
	10'' up	2.4	2.3	1.7	2.9	2.5	2.0	2.9
TOTAL HARDWOODS.....	4''-9''	303.5	285.0	212.3	626.1	534.4	429.9	325.9
	10'' up	1486.9	1396.3	1040.6	423.5	361.9	291.0	653.7
GRAND TOTAL.....	4''-9''	589.4	553.4	412.5	1069.1	912.9	734.4	594.6
	10'' up	2135.6	2005.6	1494.5	575.9	492.1	395.6	920.4
TOTAL 4'' UP.....		2725.0	2559.0	1907.0	1645.0	1405.0	1130.0	1515.0

TABLE 47.—Volume of the primary growing stock in cubic feet per acre.  
Huron Section—1956

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9'' 10'' up	18.7 120.7	15.9 102.8	9.9 64.3	20.9 75.0	16.5 59.2	9.2 33.2	..... .....
White spruce.....	4''-9'' 10'' up	3.0 13.2	2.5 11.3	1.6 7.0	35.0 20.1	27.6 15.9	15.5 8.9	..... .....
Balsam fir.....	4''-9'' 10'' up	35.0 20.1	29.8 17.1	18.6 10.7	126.8 21.8	100.1 17.3	56.0 9.7	..... .....
Hemlock.....	4''-9'' 10'' up	127.8 361.7	108.8 307.9	68.0 192.5	72.5 100.1	57.2 79.1	32.0 44.3	..... .....
White cedar.....	4''-9'' 10'' up	682.1 861.1	580.7 733.0	362.9 458.2	1055.6 250.8	833.6 198.1	466.8 110.9	..... .....
Larch.....	4''-9'' 10'' up	0.7 5.8	0.6 4.9	0.4 3.1	44.8 10.3	35.4 8.1	19.9 4.5	..... .....
TOTAL CONIFERS.....	4''-9'' 10'' up	867.3 1382.6	738.3 1177.0	461.4 735.8	1355.6 478.1	1070.4 377.7	599.4 211.5	..... .....
Sugar maple.....	4''-9'' 10'' up	10.2 151.9	8.7 129.3	5.4 80.9	6.6 34.1	5.2 27.0	2.9 15.1	..... .....
Soft maple.....	4''-9'' 10'' up	8.7 46.4	7.4 39.5	4.6 24.7	17.2 16.4	13.6 12.9	7.6 7.2	..... .....
White birch.....	4''-9'' 10'' up	16.5 19.2	14.0 16.4	8.8 10.2	51.7 20.2	40.8 16.0	22.9 8.9	..... .....
Yellow birch.....	4''-9'' 10'' up	35.3 120.3	30.1 102.4	18.8 64.0	30.7 29.2	24.2 23.1	13.6 12.9	..... .....
Beech.....	4''-9'' 10'' up	4.9 131.3	4.2 111.7	2.6 69.9	0.9 11.1	0.7 8.8	0.4 4.9	..... .....
Elm.....	4''-9'' 10'' up	15.4 221.3	13.1 188.4	8.2 117.7	34.3 97.5	27.1 77.0	15.2 43.1	..... .....
Ironwood.....	4''-9'' 10'' up	7.1 9.1	6.1 7.7	3.8 4.8	1.1 1.3	0.9 1.0	0.5 0.6	..... .....
Red oak.....	4''-9'' 10'' up	..... 6.5	..... 5.5	..... 3.4	0.4 2.0	0.3 1.6	0.2 0.9	..... .....
White oak.....	4''-9'' 10'' up	..... 3.2	..... 2.8	..... 1.7	..... .....	..... .....	..... .....	..... .....
Poplar (all).....	4''-9'' 10'' up	13.0 61.6	11.0 52.5	6.9 32.8	75.9 70.3	59.9 55.6	33.6 31.1	..... .....
Black ash.....	4''-9'' 10'' up	12.0 4.2	10.2 3.6	6.4 2.2	13.5 5.7	10.6 4.5	6.0 2.5	..... .....
White ash.....	4''-9'' 10'' up	0.9 5.6	0.8 4.7	0.5 3.0	1.2 8.4	0.9 6.7	0.5 3.7	..... .....
Basswood.....	4''-9'' 10'' up	3.2 81.1	2.7 69.1	1.7 43.1	1.7 27.1	1.3 21.4	0.7 12.0	..... .....
Black cherry.....	4''-9'' 10'' up	0.2 3.0	0.2 2.6	0.1 1.6	2.4 2.4	1.9 1.9	1.0 1.1	..... .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	127.4 864.7	108.5 736.2	67.8 460.0	237.6 325.7	187.4 257.5	105.1 144.0	..... .....
GRAND TOTAL.....	4''-9'' 10'' up	994.7 2247.3	846.8 1913.2	529.2 1195.8	1593.2 803.8	1257.8 635.2	704.5 355.5	..... .....
TOTAL 4'' UP.....		3242.0	2760.0	1725.0	2397.0	1893.0	1060.0	.....
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	0.5 11.1	0.4 9.5	0.3 6.0	2.9 3.7	2.4 3.2	1.5 2.0	2.3 19.0
White spruce.....	4''-9'' 10'' up	.....	.....	.....	1.7 1.6	1.4 1.4	0.9 0.8	0.5 0.2
Balsam fir.....	4''-9'' 10'' up	.....	.....	.....	5.9 0.7	5.0 0.6	3.1 0.4	1.6 0.3



TABLE 47 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)			HARDWOOD IMMATURE (H-II) (Cont'd)			HARDWOOD ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Hemlock.....	4''-9'' 10'' up	12.5 48.3	10.6 41.1	6.7 26.2	7.7 12.0	6.5 10.2	4.1 6.4	10.2 26.6
White cedar.....	4''-9'' 10'' up	7.1 7.4	6.0 6.3	3.8 4.0	13.6 2.8	11.5 2.4	7.2 1.5	8.8 4.9
Larch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	1.0 0.6	0.9 0.5	0.6 0.3	0.4 0.4
TOTAL CONIFERS.....	4''-9'' 10'' up	20.1 66.8	17.0 56.9	10.8 36.2	32.8 21.4	27.7 18.3	17.4 11.4	23.8 51.4
Sugar maple.....	4''-9'' 10'' up	232.5 1073.9	197.7 913.1	125.6 580.2	337.5 181.7	286.3 154.2	179.5 96.7	305.1 438.8
Soft maple.....	4''-9'' 10'' up	29.3 130.0	24.9 110.6	15.8 70.3	86.1 47.0	73.0 39.9	45.8 25.0	55.1 105.1
White birch.....	4''-9'' 10'' up	8.5 8.9	7.3 7.5	4.6 4.8	72.2 14.9	61.3 12.6	38.4 7.9	13.5 15.1
Yellow birch.....	4''-9'' 10'' up	12.3 19.6	10.5 16.6	6.6 10.6	14.1 8.9	12.0 7.5	7.5 4.7	11.7 15.5
Beech.....	4''-9'' 10'' up	32.4 474.6	27.6 403.4	17.5 256.4	26.9 38.8	22.8 33.0	14.3 20.6	30.5 111.1
Elm.....	4''-9'' 10'' up	50.8 447.5	43.2 380.4	27.5 241.7	90.9 132.5	77.2 112.4	48.4 70.5	70.4 274.1
Ironwood.....	4''-9'' 10'' up	14.2 9.0	12.0 7.7	7.6 4.9	21.9 2.7	18.6 2.3	11.7 1.4	17.1 3.7
Red oak.....	4''-9'' 10'' up	0.8 16.6	0.7 14.1	0.4 9.0	34.7 22.8	29.5 19.3	18.5 12.1	8.3 44.5
White oak.....	4''-9'' 10'' up	..... 2.9	..... 2.5	..... 1.6	0.9 0.7	0.8 0.6	0.5 0.4	0.7 3.1
Poplar (all).....	4''-9'' 10'' up	6.5 25.4	5.6 21.5	3.5 13.7	210.2 79.0	178.3 67.0	111.8 42.0	30.2 55.0
Black ash.....	4''-9'' 10'' up	11.5 14.6	9.8 12.4	6.2 7.9	33.7 7.4	28.6 6.3	18.0 3.9	27.2 17.2
White ash.....	4''-9'' 10'' up	7.7 58.9	6.5 50.1	4.1 31.8	23.9 20.5	20.3 17.3	12.7 10.9	17.7 56.7
Basswood.....	4''-9'' 10'' up	11.7 98.4	9.9 83.7	6.3 53.1	22.2 37.0	18.8 31.4	11.8 19.7	13.9 58.5
Black cherry.....	4''-9'' 10'' up	4.1 7.5	3.4 6.4	2.2 4.1	13.9 5.8	11.8 4.9	7.4 3.1	6.2 10.8
TOTAL HARDWOODS.....	4''-9'' 10'' up	422.3 2387.8	359.1 2030.0	227.9 1290.1	989.1 599.7	839.3 508.7	526.3 318.9	607.6 1209.2
GRAND TOTAL.....	4''-9'' 10'' up	442.4 2454.6	376.1 2086.9	238.7 1326.3	1021.9 621.1	867.0 527.0	543.7 330.3	631.4 1260.6
TOTAL 4'' UP.....		2897.0	2463.0	1565.0	1643.0	1394.0	874.0	1892.0
		MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
White pine.....	4''-9'' 10'' up	11.0 208.5	9.4 178.2	5.9 112.7	5.7 24.8	4.8 21.2	3.1 13.6	18.1 69.7
White spruce.....	4''-9'' 10'' up	1.2 4.9	1.0 4.2	0.6 2.7	15.6 13.1	13.4 11.1	8.6 7.1	3.8 5.5
Balsam fir.....	4''-9'' 10'' up	11.8 6.5	10.1 5.5	6.4 3.5	75.8 10.4	64.6 8.9	41.3 5.7	18.2 4.8
Hemlock.....	4''-9'' 10'' up	123.5 458.9	105.5 392.3	66.8 248.1	37.8 48.4	32.2 41.3	20.6 26.4	68.1 112.9
White cedar.....	4''-9'' 10'' up	144.4 209.4	123.3 179.0	78.0 113.2	338.6 86.8	289.0 74.1	184.8 47.4	152.4 100.2
Larch.....	4''-9'' 10'' up	..... 3.0	..... 2.6	..... 1.6	15.4 6.1	13.2 5.2	8.5 3.3	2.5 2.6
TOTAL CONIFERS.....	4''-9'' 10'' up	291.9 891.2	249.3 761.8	157.7 481.8	488.9 189.6	417.2 161.8	266.9 103.5	263.1 295.7

TABLE 47 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)			MIXEDWOODS IMMATURE (M-II) (Cont'd)			MIXEDWOODS ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Sugar maple.....	4''-9'' 10'' up	60.2 375.9	51.4 321.4	32.5 203.2	22.6 20.5	19.3 17.5	12.3 11.2	62.4 155.2
Soft maple.....	4''-9'' 10'' up	23.3 92.6	19.9 79.1	12.6 50.0	40.0 35.4	34.1 30.2	21.8 19.4	34.8 65.8
White birch.....	4''-9'' 10'' up	17.4 43.6	14.8 37.3	9.4 23.6	137.2 36.9	117.1 31.5	74.9 20.2	36.5 45.4
Yellow birch.....	4''-9'' 10'' up	47.6 138.4	40.7 118.3	25.7 74.8	42.2 38.6	36.0 33.0	23.0 21.1	34.9 55.7
Beech.....	4''-9'' 10'' up	17.8 299.3	15.2 255.8	9.6 161.8	2.8 6.1	2.4 5.3	1.5 3.4	13.2 76.3
Elm.....	4''-9'' 10'' up	34.2 398.7	29.2 340.9	18.5 215.5	77.5 170.2	66.2 145.2	42.3 92.9	72.4 337.9
Ironwood.....	4''-9'' 10'' up	8.6 6.6	7.4 5.6	4.6 3.6	6.3 0.9	5.3 0.8	3.4 0.5	6.6 0.5
Red oak.....	4''-9'' 10'' up	1.6 25.8	1.4 22.0	0.9 13.9	2.1 3.3	1.8 2.8	1.1 1.8	2.8 11.4
White oak.....	4''-9'' 10'' up	0.1 2.9	0.1 2.5	0.1 1.5	..... .....	..... .....	..... .....	..... .....
Poplar (all).....	4''-9'' 10'' up	12.6 42.3	10.8 36.1	6.8 22.9	202.3 151.3	172.6 129.2	110.5 82.6	41.9 110.4
Black ash.....	4''-9'' 10'' up	21.1 12.4	18.1 10.6	11.4 6.7	47.6 8.0	40.7 6.8	26.0 4.4	21.5 14.0
White ash.....	4''-9'' 10'' up	7.8 28.8	6.6 24.7	4.2 15.6	6.8 7.6	5.8 6.5	3.7 4.1	9.3 13.2
Basswood.....	4''-9'' 10'' up	9.6 118.4	8.2 101.2	5.2 64.0	10.2 29.3	8.7 25.0	5.6 16.0	16.1 63.7
Black cherry.....	4''-9'' 10'' up	6.9 11.4	5.8 9.8	3.7 6.2	7.7 3.1	6.6 2.6	4.2 1.7	3.8 5.5
TOTAL HARDWOODS.....	4''-9'' 10'' up	268.8 1597.1	229.6 1365.3	145.2 863.3	605.3 511.2	516.6 436.4	330.3 279.3	356.2 955.0
GRAND TOTAL.....	4''-9'' 10'' up	560.7 2488.3	478.9 2127.1	302.9 1345.1	1094.2 700.8	933.8 598.2	597.2 382.8	619.3 1250.7
TOTAL 4'' UP.....		3049.0	2606.0	1648.0	1795.0	1532.0	980.0	1870.0

TABLE 48.—Volume of the primary growing stock in cubic feet per acre.  
Huron Section—1957

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	
White pine.....	4''-9'' 10'' up	18.7 120.7	15.9 102.8	9.9 64.3	9.8 159.4	7.8 126.0	4.6 75.5	..... .....
White spruce.....	4''-9'' 10'' up	3.0 13.2	2.5 11.3	1.6 7.0	68.0 34.6	53.8 27.3	32.2 16.4	..... .....
Black spruce.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	16.6 .....	13.2 .....	7.9 .....	..... .....
Balsam fir.....	4''-9'' 10'' up	35.0 20.1	29.8 17.1	18.6 10.7	208.2 24.7	164.7 19.5	98.6 11.7	..... .....

TABLE 48 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)			CONIFEROUS IMMATURE (C-II) (Cont'd)			ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Hemlock.....	4''-9'' 10'' up	127.8 361.7	108.8 307.9	68.0 192.5	11.5 38.4	9.1 30.4	5.4 18.2	
White cedar.....	4''-9'' 10'' up	682.1 861.1	580.7 733.0	362.9 458.2	1039.6 205.5	822.2 162.5	492.2 97.3	
Larch.....	4''-9'' 10'' up	0.7 5.8	0.6 4.9	0.4 3.1	61.0 .....	48.3 .....	28.9 .....	
TOTAL CONIFERS.....	4''-9'' 10'' up	867.3 1382.6	738.3 1177.0	461.4 735.8	1414.7 462.6	1119.1 365.7	669.8 219.1	
Sugar maple.....	4''-9'' 10'' up	10.2 151.9	8.7 129.3	5.4 80.9	1.7 20.5	1.4 16.1	0.8 9.7	
Soft maple.....	4''-9'' 10'' up	8.7 46.4	7.4 39.5	4.6 24.7	11.2 .....	8.8 .....	5.3 .....	
White birch.....	4''-9'' 10'' up	16.5 19.2	14.0 16.4	8.8 10.2	104.7 67.2	82.8 53.2	49.6 31.8	
Yellow birch.....	4''-9'' 10'' up	35.3 120.3	30.1 102.4	18.8 64.0	44.1 50.2	34.9 39.7	20.9 23.7	
Beech.....	4''-9'' 10'' up	4.9 131.3	4.2 111.7	2.6 69.9	27.7 .....	21.9 .....	13.1 .....	
Elm.....	4''-9'' 10'' up	15.4 221.3	13.1 188.4	8.2 117.7	53.7 170.9	42.4 135.2	25.4 81.0	
Ironwood.....	4''-9'' 10'' up	7.1 9.1	6.1 7.7	3.8 4.8	.....	.....	.....	
Red oak.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	
White oak.....	4''-9'' 10'' up	3.2	2.8	1.7	.....	.....	.....	
Poplar (all).....	4''-9'' 10'' up	13.0 61.6	11.0 52.5	6.9 32.8	163.0 167.0	128.9 132.0	77.2 79.1	
Black ash.....	4''-9'' 10'' up	12.0 4.2	10.2 3.6	6.4 2.2	1.9 3.6	1.5 2.8	0.9 1.7	
White ash.....	4''-9'' 10'' up	0.9 5.6	0.8 4.7	0.5 3.0	.....	.....	.....	
Basswood.....	4''-9'' 10'' up	3.2 81.1	2.7 69.1	1.7 43.1	.....	.....	.....	
Black cherry.....	4''-9'' 10'' up	0.2 3.0	0.2 2.6	0.1 1.6	3.2 5.1	2.6 4.0	1.5 2.4	
TOTAL HARDWOODS.....	4''-9'' 10'' up	127.4 864.7	108.5 736.2	67.8 460.0	383.5 512.2	303.3 404.9	181.6 242.5	
GRAND TOTAL.....	4''-9'' 10'' up	994.7 2247.3	846.8 1913.2	529.2 1195.8	1798.2 974.8	1422.4 770.6	851.4 461.6	
TOTAL 4" UP.....		3242.0	2760.0	1725.0	2773.0	2193.0	1313.0	
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	.....	.....	.....	1.8 3.1	1.5 2.4	0.9 1.4	.....
Balsam fir.....	4''-9'' 10'' up	.....	.....	.....	2.5 ..	2.0 ..	1.2 ..	.....
Hemlock.....	4''-9'' 10'' up	12.1 46.0	9.6 36.4	5.7 21.5	23.8 28.1	18.8 22.2	11.2 13.2	21.2 42.7
White cedar.....	4''-9'' 10'' up	4.0 3.3	3.2 2.6	1.9 1.5	24.8 9.8	19.5 7.8	11.7 4.6	7.2 8.3
TOTAL CONIFERS.....	4''-9'' 10'' up	16.1 49.3	12.8 39.0	7.6 23.0	52.9 41.0	41.8 32.4	25.0 19.2	28.4 51.0



TABLE 48 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)			HARDWOOD IMMATURE (H-II) (Cont'd)			HARDWOOD ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Sugar maple.....	4''-9'' 10'' up	260.7 1042.8	206.4 825.7	122.1 488.2	366.4 177.2	289.3 139.9	172.1 83.3	299.4 375.5
Soft maple.....	4''-9'' 10'' up	69.1 337.6	54.7 267.3	32.4 158.0	154.5 112.4	122.0 88.7	72.6 52.8	153.7 274.1
White birch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	30.4 4.2	24.0 3.3	14.3 2.0	9.7 5.3
Yellow birch.....	4''-9'' 10'' up	20.7 37.4	16.4 29.6	9.7 17.5	25.4 14.1	20.1 11.1	12.0 6.6	28.1 30.2
Beech.....	4''-9'' 10'' up	26.4 547.3	20.9 433.4	12.4 256.2	21.8 49.9	17.2 39.4	10.2 23.5	24.2 126.1
Elm.....	4''-9'' 10'' up	110.1 699.6	87.2 553.9	51.6 327.5	278.5 341.8	219.9 269.8	130.8 160.6	190.4 544.1
Ironwood.....	4''-9'' 10'' up	15.3 10.1	12.1 8.0	7.2 4.7	23.7 1.0	18.7 0.8	11.1 0.5	19.0 4.4
Red oak.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	6.2 34.2
White oak.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	9.7 5.1	7.6 4.1	4.6 2.4	9.0 12.4
Poplar (all).....	4''-9'' 10'' up	7.0 14.8	5.5 11.7	3.3 6.9	175.9 56.4	138.8 44.6	82.6 26.5	38.4 49.5
Black ash.....	4''-9'' 10'' up	22.1 36.0	17.5 28.5	10.4 16.8	74.4 19.5	58.8 15.4	34.8 9.2	41.6 29.2
White ash.....	4''-9'' 10'' up	16.5 85.2	13.0 67.5	7.7 39.9	82.1 58.7	64.8 46.4	38.6 27.6	40.2 98.1
Basswood.....	4''-9'' 10'' up	16.8 143.0	13.3 113.2	7.9 66.9	61.4 79.4	48.5 62.7	28.9 37.3	27.7 116.1
Black cherry.....	4''-9'' 10'' up	10.3 18.7	8.1 14.9	4.8 8.8	59.1 20.0	46.6 15.8	27.7 9.4	22.7 31.6
Butternut.....	4''-9'' 10'' up	..... 3.6	..... 2.9	..... 1.7	..... .....	..... .....	..... .....	..... .....
Walnut.....	4''-9'' 10'' up	..... 3.6	..... 2.9	..... 1.7	..... .....	..... .....	..... .....	..... .....
Hickory.....	4''-9'' 10'' up	3.4 7.5	2.7 5.9	1.6 3.5	54.0 20.1	42.6 15.9	25.4 9.4	15.9 15.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	578.4 2987.2	457.8 2365.4	271.1 1398.3	1417.3 959.8	1118.9 757.9	665.7 451.1	926.2 1746.5
GRAND TOTAL.....	4''-9'' 10'' up	594.5 3036.5	470.6 2404.4	278.7 1421.3	1470.2 1000.8	1160.7 790.3	690.7 470.3	954.6 1797.5
TOTAL 4" UP.....		3631.0	2875.0	1700.0	2471.0	1951.0	1161.0	2752.1
		MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
White pine.....	4''-9'' 10'' up	13.3 124.1	10.5 98.0	6.3 59.0	1.7 17.1	1.3 13.5	0.8 8.2	0.5 22.8
White spruce.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	14.7 28.4	11.5 22.4	7.0 13.7	12.6 28.8
Balsam fir.....	4''-9'' 10'' up	16.2 .....	12.8 .....	7.7 .....	70.3 10.4	55.4 8.2	33.7 5.0	26.2 4.3
Hemlock.....	4''-9'' 10'' up	111.1 357.5	87.7 282.4	52.8 169.9	62.4 45.2	49.2 35.6	29.9 21.7	55.1 123.1
White cedar.....	4''-9'' 10'' up	294.9 294.9	232.9 233.0	140.1 140.2	512.7 141.2	404.1 111.3	245.9 67.8	208.9 150.0
Larch.....	4''-9'' 10'' up	1.7 6.4	1.4 5.0	0.8 3.0	50.3 14.3	39.7 11.2	24.1 6.9	28.0 15.9
TOTAL CONIFERS.....	4''-9'' 10'' up	437.2 782.9	345.3 618.4	207.7 372.1	712.1 256.6	561.2 202.2	341.4 123.3	331.3 344.9

TABLE 48 (Cont'd)

		MIXEDWOODS MATURE (M-I) (Cont'd)			MIXEDWOODS IMMATURE (M-II) (Cont'd)			MIXEDWOODS ALL-AGED (Cont'd)
SPECIES	D.B.H.	DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Sugar maple.....	4''-9'' 10'' up	50.9 203.6	40.2 160.8	24.2 96.8	40.3 40.4	31.7 31.9	19.3 19.4	77.4 130.0
Soft maple.....	4''-9'' 10'' up	78.4 454.9	61.9 359.3	37.2 216.2	80.4 86.4	63.4 68.1	38.6 41.4	36.1 48.1
White birch.....	4''-9'' 10'' up	29.1 19.4	23.0 15.3	13.8 9.2	124.3 42.5	98.0 33.5	59.6 20.4	40.0 33.1
Yellow birch.....	4''-9'' 10'' up	80.1 166.3	63.3 131.4	38.1 79.0	89.0 75.2	70.2 59.3	42.7 36.1	74.4 89.3
Beech.....	4''-9'' 10'' up	6.4 199.6	5.0 157.7	3.0 94.9	2.2 30.1	1.8 23.7	1.1 14.4	8.4 113.1
Elm.....	4''-9'' 10'' up	92.4 1034.8	73.0 817.3	43.9 491.9	98.1 243.7	77.3 192.1	47.1 116.9	79.1 615.8
Ironwood.....	4''-9'' 10'' up	6.8 9.4	5.4 7.4	3.2 4.5	4.6 0.8	3.5 0.7	2.2 0.4	7.3 .....
Red oak.....	4''-9'' 10'' up	..... 4.0	..... 3.2	..... 1.9	..... .....	..... .....	..... .....	..... .....
Poplar (all).....	4''-9'' 10'' up	25.6 107.7	20.2 85.1	12.2 51.2	342.4 246.9	269.9 194.6	164.2 118.5	95.2 216.9
Black ash.....	4''-9'' 10'' up	61.0 44.0	48.2 34.8	29.0 20.9	51.8 2.0	40.9 1.6	24.8 1.0	62.2 12.0
White ash.....	4''-9'' 10'' up	10.0 26.4	7.9 20.8	4.8 12.5	20.2 71.3	15.9 56.2	9.7 34.2	8.3 16.3
Basswood.....	4''-9'' 10'' up	11.8 44.8	9.3 35.3	5.6 21.3	6.4 7.1	5.0 5.6	3.1 3.5	38.6 142.2
Black cherry.....	4''-9'' 10'' up	11.4 37.1	9.0 29.3	5.4 17.6	7.3 8.9	5.8 6.9	3.5 4.2	8.0 5.2
Hickory.....	4''-9'' 10'' up	..... 4.0	..... 3.2	..... 1.9	..... .....	..... .....	..... .....	3.1 .....
TOTAL HARDWOODS.....	4''-9'' 10'' up	463.9 2356.0	366.4 1860.9	220.4 1119.8	867.0 855.3	683.4 674.2	415.9 410.4	538.1 1422.0
GRAND TOTAL.....	4''-9'' 10'' up	901.1 3138.9	711.7 2479.3	428.1 1491.9	1579.1 1111.9	1244.6 876.4	757.3 533.7	869.4 1766.9
TOTAL 4'' UP.....		4040.0	3191.0	1920.0	2691.0	2121.0	1291.0	2636.3

TABLE 49.—Volume of the primary growing stock in cubic feet per acre.  
Niagara Section—1957

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9''	18.7	15.9	9.9	9.8	7.8	4.6	.....
	10'' up	120.7	102.8	64.3	159.4	126.0	75.5	.....
White spruce.....	4''-9''	3.0	2.5	1.6	68.0	53.8	32.2	.....
	10'' up	13.2	11.3	7.0	34.6	27.3	16.4	.....
Black spruce.....	4''-9''	.....	.....	.....	16.6	13.2	7.9	.....
	10'' up	.....	.....	.....	.....	.....	.....	.....
Balsam fir.....	4''-9''	35.0	29.8	18.6	208.2	164.7	98.6	.....
	10'' up	20.1	17.1	10.7	24.7	19.5	11.7	.....

TABLE 49 (Cont'd)

		CONIFEROUS MATURE (C-I) (Cont'd)			CONIFEROUS IMMATURE (C-II) (Cont'd)			ALL-AGED (Cont'd)
SPECIES	D.B.H.	DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Hemlock.....	4''-9'' 10'' up	127.8 361.7	108.8 307.9	68.0 192.5	11.5 38.4	9.1 30.4	5.4 18.2	.....
White cedar.....	4''-9'' 10'' up	682.1 861.1	580.7 733.0	362.9 458.2	1039.6 205.5	822.2 162.5	492.2 97.3	.....
Larch.....	4''-9'' 10'' up	0.7 5.8	0.6 4.9	0.4 3.1	61.0	48.3	28.9	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	867.3 1382.6	738.3 1177.0	461.4 735.8	1414.7 462.6	1119.1 365.7	669.8 219.1	.....
Sugar maple.....	4''-9'' 10'' up	10.2 151.9	8.7 129.3	5.4 80.9	1.7 20.5	1.4 16.1	0.8 9.7	.....
Soft maple.....	4''-9'' 10'' up	8.7 46.4	7.4 39.5	4.6 24.7	11.2	8.8	5.3	.....
White birch.....	4''-9'' 10'' up	16.5 19.2	14.0 16.4	8.8 10.2	104.7 67.2	82.8 53.2	49.6 31.8	.....
Yellow birch.....	4''-9'' 10'' up	35.3 120.3	30.1 102.4	18.8 64.0	44.1 50.2	34.9 39.7	20.9 23.7	.....
Beech.....	4''-9'' 10'' up	4.9 131.3	4.2 111.7	2.6 69.9	27.7	21.9	13.1	.....
Elm.....	4''-9'' 10'' up	15.4 221.3	13.1 188.4	8.2 117.7	53.7 170.9	42.4 135.2	25.4 81.0	.....
Ironwood.....	4''-9'' 10'' up	7.1 9.1	6.1 7.7	3.8 4.8	.....	.....	.....	.....
Red oak.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....
White oak.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....
Poplar (all).....	4''-9'' 10'' up	13.0 61.6	11.0 52.5	6.9 32.8	163.0 167.0	128.9 132.0	77.2 79.1	.....
Black ash.....	4''-9'' 10'' up	12.0 4.2	10.2 3.6	6.4 2.2	1.9 3.6	1.5 2.8	0.9 1.7	.....
White ash.....	4''-9'' 10'' up	0.9 5.6	0.8 4.7	0.5 3.0	.....	.....	.....	.....
Basswood.....	4''-9'' 10'' up	3.2 81.1	2.7 69.1	1.7 43.1	.....	.....	.....	.....
Black cherry.....	4''-9'' 10'' up	0.2 3.0	0.2 2.6	0.1 1.6	3.2 5.1	2.6 4.0	1.5 2.4	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	127.4 864.7	108.5 736.2	67.8 460.0	383.5 512.2	303.3 404.9	181.6 242.5	.....
GRAND TOTAL.....	4''-9'' 10'' up	994.7 2247.3	846.8 1913.2	529.2 1195.8	1798.2 974.8	1422.4 770.6	851.4 461.6	.....
TOTAL 4'' UP.....		3242.0	2760.0	1725.0	2773.0	2193.0	1313.0	.....
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	.....	.....	.....	2.3 9.4	1.8 7.4	1.1 4.4	5.0 14.7
TOTAL CONIFERS.....	4''-9'' 10'' up	.....	.....	.....	2.3 9.4	1.8 7.4	1.1 4.4	5.0 14.7
Sugar maple.....	4''-9'' 10'' up	88.7 406.7	69.8 320.1	41.7 191.3	96.4 60.4	76.3 47.7	45.4 28.4	104.3 183.8
Soft maple.....	4''-9'' 10'' up	103.2 763.7	81.2 601.1	48.5 359.3	168.6 147.2	133.5 116.4	79.4 69.2	137.8 325.7
White birch.....	4''-9'' 10'' up	.....	.....	.....	10.2 1.5	8.0 1.2	4.8 0.7	.....
Yellow birch.....	4''-9'' 10'' up	9.7 15.1	7.6 11.9	4.6 7.1	18.4 7.3	14.6 5.8	8.7 3.4	14.1 14.2
Beech.....	4''-9'' 10'' up	54.1 292.6	42.6 230.3	25.4 137.7	75.4 86.1	59.6 68.0	35.5 40.5	59.3 143.1



TABLE 49 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)			HARDWOOD IMMATURE (H-II) (Cont'd)			HARDWOOD ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Elm.....	4''-9'' 10'' up	198.9 1101.3	156.6 866.8	93.6 518.1	310.6 325.9	245.6 257.6	146.1 153.3	205.9 559.2
Ironwood.....	4''-9'' 10'' up	21.3 3.5	16.8 2.7	10.1 1.6	29.1 1.3	22.9 1.1	13.7 0.6	22.8 3.7
Red oak.....	4''-9'' 10'' up	17.6 139.3	13.8 109.7	8.3 65.5	75.0 77.1	59.3 60.9	35.3 36.3	38.7 122.9
White oak.....	4''-9'' 10'' up	35.7 141.8	28.1 111.6	16.8 66.7	64.8 68.6	51.2 54.2	30.5 32.3	48.0 104.1
Poplar (all).....	4''-9'' 10'' up	27.5 71.6	21.6 56.4	12.9 33.7	102.4 49.7	80.9 39.3	48.2 23.4	18.1 25.8
Black ash.....	4''-9'' 10'' up	13.0 7.6	10.2 6.0	6.1 3.6	27.5 5.3	21.7 4.2	12.9 2.5	13.5 9.3
White ash.....	4''-9'' 10'' up	75.9 217.2	59.8 170.9	35.7 102.2	133.9 90.7	105.8 71.8	63.0 42.7	69.0 141.0
Basswood.....	4''-9'' 10'' up	28.3 145.1	22.2 114.3	13.3 68.3	45.2 55.4	35.7 43.9	21.2 26.1	20.6 77.3
Black cherry.....	4''-9'' 10'' up	12.6 32.8	9.9 25.8	5.9 15.4	32.2 24.0	25.4 19.0	15.1 11.3	17.0 27.8
Butternut.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	3.2 8.3
Hickory.....	4''-9'' 10'' up	47.8 55.4	37.6 43.6	22.5 26.1	98.6 39.5	78.0 31.2	46.4 18.6	48.4 45.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	734.3 3393.7	577.8 2671.2	345.4 1596.6	1288.3 1040.0	1018.5 822.3	606.2 489.3	820.7 1792.1
GRAND TOTAL.....	4''-9'' 10'' up	734.3 3393.7	577.8 2671.2	345.4 1596.6	1290.6 1049.4	1020.3 829.7	607.3 493.7	825.7 1806.8
TOTAL 4" UP.....		4128.0	3249.0	1942.0	2340.0	1850.0	1101.0	2632.5
		MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
White pine.....	4''-9'' 10'' up	60.7 670.5	48.1 531.1	28.7 317.3	78.2 90.6	62.1 72.1	37.7 43.7	103.4 382.5
Red pine.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	77.1 134.0
Balsam fir.....	4''-9'' 10'' up	.....	.....	.....	2.7	2.1	1.3	.....
Hemlock.....	4''-9'' 10'' up	148.5 257.3	117.7 203.8	70.3 121.7	42.4 80.9	33.7 64.3	20.4 39.0	61.5 162.2
White cedar.....	4''-9'' 10'' up	113.9 142.0	90.2 112.5	53.9 67.2	351.2 80.3	279.1 63.8	169.3 38.7	95.0 42.1
Larch.....	4''-9'' 10'' up	4.2 3.1	3.3 2.5	2.0 1.5	58.2 24.9	46.2 19.8	28.1 12.0	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	327.3 1072.9	259.3 849.9	154.9 507.7	532.7 276.7	423.2 220.0	256.8 133.4	337.0 720.8
Sugar maple.....	4''-9'' 10'' up	25.6 142.6	20.2 113.0	12.1 67.5	8.0	6.4	3.9	76.7 81.0
Soft maple.....	4''-9'' 10'' up	105.7 150.2	83.7 119.0	50.0 71.1	162.1 213.1	128.9 169.4	78.1 102.8	109.0 151.4
White birch.....	4''-9'' 10'' up	7.5 18.1	6.0 14.3	3.5 8.6	114.2 17.1	90.8 13.6	55.1 8.2	35.1 18.0
Yellow birch.....	4''-9'' 10'' up	87.4 106.4	69.2 84.3	41.4 50.3	127.2 47.0	101.1 37.4	61.3 22.7	41.6 24.4
Beech.....	4''-9'' 10'' up	49.0 327.6	38.8 259.4	23.2 155.0	4.0 14.8	3.2 11.7	1.9 7.1	22.7 158.3
Elm.....	4''-9'' 10'' up	54.9 467.9	43.5 370.6	26.0 221.3	192.0 435.1	152.5 345.9	92.5 209.8	96.4 351.3

TABLE 49 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)			MIXEDWOODS IMMATURE (M-II) (Cont'd)			MIXEDWOODS ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
Ironwood.....	4''-9'' 10'' up	3.7	2.9	1.7	.....	.....	.....	11.0
Red oak.....	4''-9'' 10'' up	6.6 198.1	5.2 157.0	3.1 93.8	14.6 6.8	11.6 5.4	7.0 3.3	63.2 167.5
White oak.....	4''-9'' 10'' up	51.9 251.6	41.1 199.2	24.5 119.0	20.5 6.3	16.3 5.0	9.9 3.0	84.8 26.5
Poplar (all).....	4''-9'' 10'' up	10.4 37.1	8.2 29.5	4.9 17.6	218.0 133.1	173.3 105.7	105.1 64.2	18.1 29.7
Black ash.....	4''-9'' 10'' up	21.7 11.2	17.2 8.9	10.3 5.3	67.7 7.3	53.8 5.8	32.7 3.5	29.3 2.1
White ash.....	4''-9'' 10'' up	3.4 18.5	2.7 14.7	1.6 8.8	5.4 .....	4.3 .....	2.6 .....	11.3 16.9
Basswood.....	4''-9'' 10'' up	6.9 26.0	5.5 20.6	3.3 12.3	14.0 12.8	11.1 10.2	6.7 6.2	13.1 45.6
Black cherry.....	4''-9'' 10'' up	14.5 51.3	11.5 40.6	6.9 24.3	24.1 5.4	19.1 4.3	11.6 2.6	6.9 26.6
Butternut.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	0.6 11.1
Hickory.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	9.0 9.3
TOTAL HARDWOODS.....	4''-9'' 10'' up	449.2 1806.6	355.7 1431.1	212.5 854.9	971.8 898.8	772.4 714.4	468.4 433.4	628.8 1119.7
GRAND TOTAL.....	4''-9'' 10'' up	776.5 2879.5	615.0 2281.0	367.4 1362.6	1504.5 1175.5	1195.6 934.4	725.2 566.8	965.8 1840.5
TOTAL 4'' UP.....		3656.0	2896.0	1730.0	2680.0	2130.0	1292.0	2806.3

TABLE 50.—Volume of the primary growing stock in cubic feet per acre.  
Northern Coniferous Section—1952-1953

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	579.0 302.3	530.9 277.2	415.4 216.9	172.0 83.9	764.4 81.2	676.6 71.8	454.0 48.2	156.1 177.4
White spruce.....	4''-9'' 10'' up	22.8 43.4	20.9 39.8	16.4 31.1	6.2 130.5	.....	.....	.....	.....
Black spruce.....	4''-9'' 10'' up	1266.6 324.6	1161.4 297.6	908.7 232.9	311.9 56.3	1336.8 127.4	1183.2 112.7	793.9 75.7	160.3 18.0
Balsam fir.....	4''-9'' 10'' up	107.3 34.1	98.4 31.2	77.0 24.4	95.4 80.6	54.1 16.4	47.9 14.5	32.1 9.7	12.6 2.9
TOTAL CONIFERS.....	4''-9'' 10'' up	1975.7 704.4	1811.6 645.8	1417.5 505.3	585.5 351.3	2155.3 225.0	1907.7 199.0	1280.0 133.6	329.0 198.3

TABLE 50 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9''	69.6	63.8	49.9	36.7	59.1	52.4	35.1	20.0
	10'' up	35.7	32.7	25.6	98.8	11.4	10.0	6.7	8.2
Poplar (all).....	4''-9''	62.8	57.6	45.0	14.5	85.6	75.8	50.9	14.3
	10'' up	159.8	146.5	114.7	71.2	73.6	65.1	43.7	5.2
TOTAL HARDWOODS.....	4''-9''	132.4	121.4	94.9	51.2	144.7	128.2	86.0	34.3
	10'' up	195.5	179.2	140.3	170.0	85.0	75.1	50.4	13.4
GRAND TOTAL.....	4''-9''	2108.1	1933.0	1512.4	636.7	2300.0	2035.9	1366.0	363.3
	10'' up	899.9	825.0	645.6	521.3	310.0	274.1	184.0	211.7
TOTAL 4'' UP.....		3008.0	2758.0	2158.0	1158.0	2610.0	2310.0	1550.0	575.0
SPECIES	D.B.H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9''	170.9	146.2	96.1	18.5	110.0	90.1	56.6	19.7
	10'' up	112.1	95.9	63.0	.....	5.7	4.6	2.9	1.0
White spruce.....	4''-9''	60.4	51.7	34.0	2.0	22.5	18.4	11.5	4.0
	10'' up	56.7	48.5	31.9	.....	23.8	19.5	12.3	4.3
Black spruce.....	4''-9''	135.2	115.7	76.1	43.8	75.2	61.5	38.6	13.4
	10'' up	16.0	13.7	9.0	19.5	.....	.....	.....	.....
Balsam fir.....	4''-9''	41.7	35.6	23.4	.....	23.8	19.5	12.2	4.3
	10'' up	31.5	27.0	17.8	.....	25.3	20.7	13.1	4.5
TOTAL CONIFERS.....	4''-9''	408.2	349.2	229.6	64.3	231.5	189.5	118.9	41.4
	10'' up	216.3	185.1	121.7	19.5	54.8	44.8	28.3	9.8
White birch.....	4''-9''	483.6	413.7	271.9	99.3	139.6	114.2	71.7	25.0
	10'' up	209.2	179.0	117.7	73.1	10.8	8.9	5.6	1.9
Poplar (all).....	4''-9''	1991.0	1703.3	1119.7	143.6	2037.9	1668.0	1047.9	364.3
	10'' up	1570.7	1343.7	883.4	574.2	417.4	341.6	214.6	74.6
TOTAL HARDWOODS.....	4''-9''	2474.6	2117.0	1391.6	242.9	2177.5	1782.2	1119.6	389.3
	10'' up	1779.9	1522.7	1001.1	647.3	428.2	350.5	220.2	76.5
GRAND TOTAL.....	4''-9''	2882.8	2466.2	1621.2	307.2	2409.0	1971.7	1238.5	430.7
	10'' up	1996.2	1707.8	1122.8	666.8	483.0	395.3	248.5	86.3
TOTAL 4'' UP.....		4879.0	4174.0	2741.0	974.0	2892.0	2367.0	1487.0	517.0
SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9''	214.0	201.5	155.4	23.8	446.6	392.9	258.2	401.5
	10'' up	318.3	299.8	231.1	73.4	146.5	128.9	84.7	.....
White spruce.....	4''-9''	45.4	42.7	33.0	15.5	16.0	14.1	9.2	.....
	10'' up	147.8	139.2	107.3	294.4	37.1	32.6	21.5	.....
Black spruce.....	4''-9''	543.2	511.5	394.4	130.3	524.3	461.2	303.1	36.3
	10'' up	265.1	249.7	192.5	108.7	98.4	86.6	56.9	.....
Balsam fir.....	4''-9''	201.0	189.2	145.9	116.3	57.3	50.4	33.1	.....
	10'' up	86.9	81.8	63.1	18.9	22.4	19.7	13.0	.....
TOTAL CONIFERS.....	4''-9''	1003.6	944.9	728.7	285.9	1044.2	918.6	603.6	437.8
	10'' up	818.1	770.5	594.0	495.4	304.4	267.8	176.1	.....
White birch.....	4''-9''	350.0	329.6	254.1	131.4	187.7	165.1	108.5	49.5
	10'' up	265.1	249.6	192.5	212.6	36.6	32.2	21.1	.....
Poplar (all).....	4''-9''	326.8	307.8	237.3	22.3	1007.4	886.2	582.4	88.7
	10'' up	1179.4	1110.6	856.4	165.4	370.7	326.1	214.3	.....
TOTAL HARDWOODS.....	4''-9''	676.8	637.4	491.4	153.7	1195.1	1051.3	690.9	138.2
	10'' up	1444.5	1360.2	1048.9	378.0	407.3	358.3	235.4	.....
GRAND TOTAL.....	4''-9''	1680.4	1582.3	1220.1	439.6	2239.3	1969.9	1294.5	576.0
	10'' up	2262.6	2130.7	1642.9	873.4	711.7	626.1	411.5	.....
TOTAL 4'' UP.....		3943.0	3713.0	2863.0	1313.0	2951.0	2596.0	1706.0	576.0

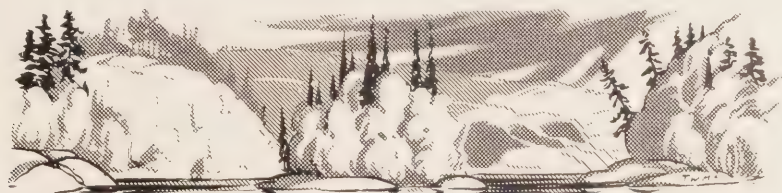


TABLE 51.—Volume of the primary growing stock in cubic feet per acre.  
Northern Coniferous Section—1954-1955

SPECIES	D.B.H.	CONIFEROUS COVER TYPE											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	944.5 1257.1	922.5 1227.9	843.5 1122.6	535.9 713.4	854.8 319.4	821.1 306.8	706.1 26.8	412.7 154.2	429.8 27.4	390.3 24.9	260.2 16.6	95.8 6.1
White spruce.....	4''-9'' 10'' up	139.4 101.4	136.2 99.0	124.5 90.5	79.1 57.5	6.7 18.2	6.5 17.4	5.6 15.0	3.3 8.7	2.3 0.2	2.0 0.2	1.4 0.1	0.5
Black spruce.....	4''-9'' 10'' up	499.7 399.0	488.1 389.7	446.2 356.4	283.6 226.4	1674.7 314.2	1608.8 301.9	1383.3 259.6	808.7 151.7	1806.5 61.6	1640.3 56.0	1093.6 37.3	402.9 13.7
Balsam fir.....	4''-9'' 10'' up	234.0 24.0	228.6 23.4	209.0 21.4	132.8 13.6	84.5 25.8	81.2 24.8	69.8 21.3	40.8 12.5	28.7 3.2	26.1 2.9	17.4 1.9	6.4 0.7
Larch.....	4''-9'' 10'' up	25.8	25.2	23.0	14.6	.....	.....	.....	.....	2.5	2.2	1.5	0.5
TOTAL CONIFERS.....	4''-9'' 10'' up	1843.4 1781.5	1800.6 1740.0	1646.2 1590.9	1046.0 1010.9	2620.7 677.6	2517.6 650.9	2164.8 559.7	1265.5 327.1	2269.8 92.4	2060.9 84.0	1374.1 55.9	506.1 20.5
White birch.....	4''-9'' 10'' up	101.9 44.3	99.5 43.3	91.0 39.6	57.9 25.1	109.6 25.6	105.3 24.6	90.6 21.1	53.0 12.3	41.2 3.0	37.5 2.7	25.0 1.8	9.2 0.7
Poplar (all).....	4''-9'' 10'' up	86.7 442.2	84.7 431.9	77.5 394.8	49.2 250.9	57.9 66.6	55.6 64.0	47.8 55.0	27.9 32.2	39.5 12.1	35.9 11.0	23.9 7.3	8.8 2.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	188.6 486.5	184.2 475.2	168.5 434.4	107.1 276.0	167.5 92.2	160.9 88.6	138.4 76.1	80.9 44.5	80.7 15.1	73.4 13.7	48.9 9.1	18.0 3.4
GRAND TOTAL.....	4''-9'' 10'' up	2032.0 2268.0	1984.8 2215.2	1814.7 2025.3	1153.1 1286.9	2788.2 769.8	2678.5 739.5	2332.2 635.8	1346.4 371.6	2350.5 107.5	2134.3 97.7	1423.0 65.0	524.1 23.9
TOTAL (ALL).....		4300.0	4200.0	3840.0	2440.0	3558.0	3418.0	2939.0	1718.0	2458.0	2232.0	1488.0	548.0
		HARDWOOD COVER TYPE											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	.....	11.1 34.1	10.4 32.0	8.0 24.6	3.1 9.3	83.1 18.7	73.6 16.6	47.8 10.8	16.2 3.6
White spruce.....	4''-9'' 10'' up	25.0 11.3	24.4 11.0	21.3 9.6	9.1 4.1	18.0 46.1	16.9 43.1	12.0 33.3	4.9 12.6	0.6 19.8	0.5 17.5	0.4 11.3	0.1 3.9
Black spruce.....	4''-9'' 10'' up	187.5 114.5	183.2 111.8	160.2 97.8	68.3 41.7	97.4 38.3	91.3 35.8	70.3 27.6	26.6 10.5	97.3 9.6	86.2 8.5	56.0 5.5	18.9 1.9
Balsam fir.....	4''-9'' 10'' up	80.7 28.0	78.8 27.4	68.9 24.0	29.4 10.2	53.5 25.7	50.0 24.1	38.5 18.6	14.6 7.0	30.5	27.1	17.6	5.9
TOTAL CONIFERS.....	4''-9'' 10'' up	293.2 153.8	286.4 150.2	250.4 131.4	106.8 56.0	180.0 144.2	168.6 135.0	129.8 104.1	49.2 39.4	211.5 48.1	187.4 4.6	121.8 27.6	41.1 9.4
White birch.....	4''-9'' 10'' up	882.6 554.9	862.2 542.0	754.1 474.0	321.5 202.1	835.6 333.1	782.4 311.9	602.9 240.3	228.3 91.0	660.1 111.0	584.9 98.4	380.0 63.9	128.4 21.6
Poplar (all).....	4''-9'' 10'' up	1059.7 3095.8	1035.1 3024.1	905.3 2644.8	386.0 1127.6	1414.1 863.0	1324.0 808.1	1020.2 622.7	386.3 235.8	1365.9 148.4	1210.2 131.5	786.3 85.4	265.6 28.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	1942.3 3650.7	1897.3 3566.1	1659.4 3118.8	707.5 1329.7	2249.7 1196.1	2106.4 1120.0	1623.1 863.0	614.6 326.8	2026.0 259.4	1795.1 229.9	1166.3 149.1	394.0 50.5
GRAND TOTAL.....	4''-9'' 10'' up	2235.5 3804.5	2183.7 3716.3	1909.8 3205.2	814.3 1385.7	2429.7 1340.3	2275.0 1255.0	1752.9 967.1	663.8 366.2	2237.5 307.5	1982.5 272.5	1288.1 176.9	435.1 59.9
TOTAL (ALL).....		6040.0	5900.0	5160.0	2200.0	3770.0	3530.0	2720.0	1030.0	2545.0	2255.0	1465.0	495.0
		MIXEDWOODS COVER TYPE											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	28.6 288.9	26.9 271.5	20.0 202.4	8.6 87.3	292.5 305.6	260.0 271.6	163.2 170.6	58.3 61.0	318.4 39.4	292.3 36.1	198.1 24.5	67.9 8.4
White spruce.....	4''-9'' 10'' up	94.6 378.5	88.9 355.7	66.3 265.1	28.6 114.3	32.0 125.4	28.4 111.5	17.8 70.0	6.4 25.0	7.7 5.4	7.0 5.0	4.7 3.4	1.6 1.2
Black spruce.....	4''-9'' 10'' up	467.8 223.2	439.6 209.7	327.6 156.3	141.3 67.4	1078.2 259.5	958.4 230.7	601.8 144.8	215.0 51.7	756.2 27.4	693.9 25.2	470.4 17.1	161.3 5.8

TABLE 51 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS COVER TYPE (Cont'd)											
		HEIGHT CLASS											
		71 Ft.-90 Ft.				51 Ft.-70 Ft.				31 Ft.-50 Ft.			
		DENSITY CLASS				DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Balsam fir.....	4"-9" 10" up	356.1 135.7	334.6 127.6	249.3 95.1	107.5 41.0	341.6 83.3	303.7 74.0	190.7 46.5	68.1 16.6	175.5 7.3	161.1 6.7	109.2 4.6	37.4 1.6
Larch.....	4"-9" 10" up	.....	.....	.....	.....	4.5 0.7	4.1 0.6	2.5 0.4	0.9 0.1	2.6	2.4	1.6	0.5
TOTAL CONIFERS.....	4"-9" 10" up	947.1 1026.3	890.0 964.5	663.2 718.9	286.0 310.0	1748.8 774.5	1554.6 688.4	976.0 432.3	348.7 154.4	1260.4 79.5	1156.7 73.0	784.0 49.6	268.7 17.0
White birch.....	4"-9" 10" up	404.6 454.4	380.2 427.1	283.4 318.3	122.2 137.2	876.1 335.7	778.7 298.4	489.0 187.4	174.7 66.9	470.7 64.8	431.9 59.5	292.8 40.3	100.4 13.8
Poplar (all).....	4"-9" 10" up	685.3 2707.3	644.0 2544.2	480.0 1896.2	207.0 817.6	704.1 806.8	625.8 717.1	393.0 450.3	140.4 160.9	601.1 135.5	551.5 124.4	374.0 84.3	128.2 28.9
TOTAL HARDWOODS.....	4"-9" 10" up	1089.9 3161.7	1024.2 2971.3	763.4 2214.5	329.2 954.8	1580.2 1142.5	1404.5 1015.5	882.0 637.7	315.1 227.8	1071.8 200.3	983.4 183.9	666.8 124.6	228.6 42.7
GRAND TOTAL.....	4"-9" 10" up	2037.0 4188.0	1914.2 3935.8	1426.6 2933.4	615.2 1264.8	3329.0 1917.0	2959.1 1703.9	1858.0 1070.0	663.8 382.2	2332.2 279.8	2140.1 256.9	1450.8 174.2	497.3 59.7
TOTAL (ALL).....		6225.0	5850.0	4360.0	1880.0	5246.0	4663.0	2928.0	1046.0	2612.0	2397.0	1625.0	557.0

TABLE 52.—Volume of the primary growing stock in cubic feet per acre.  
Quetico Section—1950

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	8.9 225.4	8.7 220.6	7.5 189.1	12.4 269.7	22.5 64.5	21.8 62.4	19.0 54.5	2.5 167.3
Red pine.....	4"-9" 10" up	23.7 177.5	23.2 173.7	19.9 148.9	1.9 35.0	41.8 69.5	40.5 67.2	35.3 58.6	3.8 11.4
Jack pine.....	4"-9" 10" up	544.3 265.6	532.6 259.9	456.7 222.9	116.0 76.7	552.3 135.5	534.6 131.1	466.3 114.4	24.1 24.4
White spruce.....	4"-9" 10" up	16.9 44.2	16.5 43.3	14.2 37.1	7.2 26.9	22.8 29.8	22.0 28.9	19.2 25.2	11.8 48.8
Black spruce.....	4"-9" 10" up	496.4 94.5	485.6 92.5	416.5 79.3	59.9 13.9	526.1 56.5	509.2 54.7	444.2 47.7	26.8 23.2
Balsam fir.....	4"-9" 10" up	116.8 33.5	114.2 32.8	98.0 28.1	67.5 39.5	111.7 13.7	108.2 13.2	94.4 11.5	81.1 .....
White cedar.....	4"-9" 10" up	63.3 87.0	61.9 85.1	53.1 73.0	13.4 49.3	32.3 26.4	31.2 25.6	27.2 22.3	30.3 79.6
TOTAL CONIFERS.....	4"-9" 10" up	1270.3 927.7	1242.7 907.9	1065.9 778.4	278.3 511.0	1309.5 395.9	1267.5 383.1	1105.6 334.2	180.4 354.7

TABLE 52 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9''	64.2	62.8	53.8	16.7	50.0	48.4	42.2	33.3
	10'' up	63.2	61.8	53.0	39.5	20.8	20.1	17.6	23.6
Poplar (all).....	4''-9''	90.9	88.9	76.2	34.5	130.6	126.4	110.2	0.3
	10'' up	130.7	127.9	109.7	41.1	116.2	112.5	98.2	165.7
Red maple.....	4''-9''				0.9				
	10'' up								
TOTAL HARDWOODS.....	4''-9''	155.1	151.7	130.0	52.1	180.6	174.8	152.4	33.6
	10'' up	193.9	189.7	162.7	80.6	137.0	132.6	115.8	189.3
GRAND TOTAL.....	4''-9''	1425.4	1394.4	1195.9	330.4	1490.1	1442.3	1258.0	214.0
	10'' up	1121.6	1097.6	941.1	591.6	532.9	515.7	450.0	544.0
TOTAL 4'' UP.....		2547.0	2492.0	2137.0	922.0	2023.0	1958.0	1708.0	758.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
White pine.....	4''-9''	9.0	8.5	6.9	.....	1.2	1.1	0.8	.....
	10'' up	24.0	22.6	18.3	284.1	29.1	26.6	19.4	.....
Jack pine.....	4''-9''	15.8	14.9	12.1	1.1	86.1	78.9	57.6	29.0
	10'' up	44.6	42.0	34.2	3.3	42.4	38.8	28.4	19.0
White spruce.....	4''-9''	13.1	12.4	10.0	10.6	5.7	5.2	3.8	2.2
	10'' up	28.1	26.4	21.5	35.5	15.1	13.8	10.1	4.9
Black spruce.....	4''-9''	18.9	17.7	14.4	1.1	17.0	15.6	11.4	1.0
	10'' up	3.1	3.0	2.4	.....	3.8	3.4	2.5	.....
Balsam fir.....	4''-9''	35.0	32.9	26.8	5.8	37.0	33.9	24.8	4.6
	10'' up	22.7	21.4	17.4	13.9	14.0	12.8	9.4	.....
White cedar.....	4''-9''				.....				.....
	10'' up				.....				7.1
TOTAL CONIFERS.....	4''-9''	91.8	86.4	70.2	18.6	147.0	134.7	98.4	36.8
	10'' up	122.5	115.4	93.8	336.8	104.4	95.4	69.8	31.0
White birch.....	4''-9''	390.9	368.2	299.1	44.5	236.0	216.1	158.0	22.4
	10'' up	166.7	157.0	127.6	117.9	13.5	12.3	9.0	.....
Poplar (all).....	4''-9''	766.2	721.5	586.3	153.5	1232.5	1128.2	824.9	382.9
	10'' up	1154.0	1086.8	883.0	425.7	141.5	129.5	94.7	33.8
Red maple.....	4''-9''	10.4	9.8	7.9	.....	1.9	1.7	1.3	.....
	10'' up	3.3	3.1	2.6	.....	.....	.....	.....	.....
Ash.....	4''-9''	19.7	18.5	15.1	.....	7.4	6.8	5.0	3.1
	10'' up	21.5	20.3	16.4	.....	5.8	5.3	3.9	.....
TOTAL HARDWOODS.....	4''-9''	1187.2	1118.0	908.4	198.0	1477.8	1352.8	989.2	408.4
	10'' up	1345.5	1267.2	1029.6	543.6	160.8	147.1	107.6	33.8
GRAND TOTAL.....	4''-9''	1279.0	1204.4	987.6	216.6	1624.8	1487.5	1087.6	445.2
	10'' up	1468.0	1382.6	1123.4	880.4	265.2	242.5	177.4	64.8
TOTAL 4'' UP.....		2747.0	2587.0	2102.0	1097.0	1890.0	1730.0	1265.0	510.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
White pine.....	4''-9''	15.8	14.9	12.0	.....	21.9	20.5	16.2	4.7
	10'' up	206.4	194.4	157.6	267.9	69.5	65.1	51.4	29.5
Red pine.....	4''-9''	9.6	9.1	7.3	.....	22.5	21.0	16.6	11.7
	10'' up	64.5	60.7	49.2	.....	42.5	39.8	31.4	43.0
Jack pine.....	4''-9''	184.0	173.4	140.4	6.3	305.7	286.1	225.9	124.7
	10'' up	249.0	234.6	190.0	60.1	143.2	134.0	105.8	47.8
White spruce.....	4''-9''	39.2	37.0	29.9	11.2	30.8	28.9	22.8	5.3
	10'' up	106.1	99.9	81.0	56.3	42.3	39.5	31.2	12.7
Black spruce.....	4''-9''	164.1	154.6	125.2	70.2	212.5	198.9	157.0	27.9
	10'' up	52.4	49.4	40.0	34.4	23.1	21.6	17.1	8.8



TABLE 52 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Balsam fir.....	4''-9''	188.7	177.8	144.1	67.9	121.7	114.0	90.0	42.3
	10'' up	44.9	42.3	34.2	21.4	18.4	17.2	13.6	11.2
White cedar.....	4''-9''	32.9	30.9	25.0	9.0	19.2	18.0	14.2	.....
	10'' up	29.8	28.1	22.8	8.4	15.3	14.3	11.3	.....
TOTAL CONIFERS.....	4''-9''	634.3	597.7	483.9	164.6	734.3	687.4	542.7	216.6
	10'' up	753.1	709.4	574.8	448.5	354.3	331.5	261.8	153.0
White birch.....	4''-9''	232.1	218.7	177.1	83.1	174.9	163.7	129.3	29.5
	10'' up	183.9	173.2	140.3	178.3	36.3	34.0	26.8	6.6
Poplar (all).....	4''-9''	359.9	339.1	274.6	51.7	454.4	425.3	335.8	128.8
	10'' up	674.3	635.2	514.6	155.2	264.6	247.7	195.6	58.7
Red maple.....	4''-9''	9.7	9.1	7.4	6.1	10.9	10.2	8.0	2.4
	10'' up	1.7	1.6	1.3	1.5	1.3	1.2	1.0	.....
Ash.....	4''-9''	.....	.....	.....	.....	.....	.....	.....	3.8
	10'' up	.....	.....	.....	.....	.....	.....	.....	1.6
TOTAL HARDWOODS.....	4''-9''	601.7	566.9	459.1	140.9	640.2	599.2	473.1	164.5
	10'' up	859.9	810.0	656.2	335.0	302.2	282.9	223.4	66.9
GRAND TOTAL.....	4''-9''	1236.0	1164.6	943.0	305.5	1374.5	1286.6	1015.8	381.1
	10'' up	1613.0	1519.4	1231.0	783.5	656.5	614.4	485.2	219.9
TOTAL 4'' UP.....		2849.0	2684.0	2174.0	1089.0	2031.0	1901.0	1501.0	601.0

TABLE 53.—Volume of the primary growing stock in cubic feet per acre.  
Quetico Section—1951<sup>1</sup>

SPECIES	D.B.H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White spruce.....	4''-9''	10.2	9.7	7.5	3.1	.....	.....	.....	.....
	10'' up	13.2	12.6	9.7	3.9	.....	.....	.....	.....
Balsam fir.....	4''-9''	43.7	41.6	32.0	13.1	36.0	32.0	24.4	11.1
	10'' up	7.8	7.4	5.7	2.3	3.8	3.4	2.6	1.2
White cedar.....	4''-9''	5.6	5.3	4.1	1.7	.....	.....	.....	.....
	10'' up	1.4	1.4	1.0	0.4	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9''	59.5	56.6	43.6	17.9	36.0	32.0	24.4	11.1
	10'' up	22.4	21.4	16.4	6.6	3.8	3.4	2.6	1.2
White elm.....	4''-9''	17.2	16.4	12.6	5.1	.....	.....	.....	.....
	10'' up	85.8	81.6	62.9	25.7	.....	.....	.....	.....
Red oak.....	4''-9''	5.7	5.5	4.2	1.7	.....	.....	.....	.....
	10'' up	10.7	10.1	7.8	3.2	.....	.....	.....	.....
White birch.....	4''-9''	81.8	77.9	60.0	24.5	121.8	108.4	82.7	37.8
	10'' up	30.5	29.1	22.4	9.1	6.1	5.5	4.2	1.9
Poplar (all).....	4''-9''	939.8	894.8	689.2	281.1	935.7	833.7	636.1	290.4
	10'' up	986.0	938.8	723.1	295.0	228.1	203.2	155.1	70.8
Ash.....	4''-9''	65.5	62.4	48.0	19.6	73.9	65.9	50.3	23.0
	10'' up	35.1	33.4	25.8	10.5	15.6	13.9	10.6	4.8
TOTAL HARDWOODS.....	4''-9''	1110.0	1057.0	814.0	332.0	1131.4	1008.0	769.1	351.2
	10'' up	1148.1	1093.0	842.0	343.5	249.8	222.6	169.9	77.5
GRAND TOTAL.....	4''-9''	1169.5	1113.6	857.6	349.9	1167.4	1040.0	793.5	362.3
	10'' up	1170.5	1114.4	858.4	350.1	253.6	226.0	172.5	78.7
TOTAL 4'' UP.....		2340.0	2228.0	1716.0	700.0	1421.0	1266.0	966.0	441.0

<sup>1</sup> There were not sufficient field data to prepare a table for the Coniferous cover type.

TABLE 53 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4''-9''	6.8	6.7	6.0	2.8	19.3	18.6	15.0	6.1
	10'' up	234.5	231.5	208.2	98.8	72.7	69.9	56.6	23.1
Red pine.....	4''-9''	6.7	6.6	5.9	2.8	19.4	18.7	15.1	6.2
	10'' up	79.0	78.0	70.2	33.3	48.1	46.2	37.4	15.2
Jack pine.....	4''-9''	148.0	146.1	131.4	62.4	113.3	108.9	88.1	36.0
	10'' up	50.4	49.8	44.8	21.2	31.9	30.7	24.8	10.2
White spruce.....	4''-9''	86.9	85.8	77.2	36.6	56.1	53.9	43.7	17.8
	10'' up	113.8	112.3	101.0	48.0	62.5	60.1	48.6	19.9
Black spruce.....	4''-9''	22.8	22.5	20.2	9.6	22.0	21.2	17.1	6.9
	10'' up	4.3	4.2	3.8	1.8	4.6	4.4	3.6	1.5
Balsam fir.....	4''-9''	217.8	215.0	193.4	91.8	361.5	347.5	281.2	114.9
	10'' up	52.8	52.1	46.8	22.2	51.6	49.6	40.2	16.4
White cedar.....	4''-9''	18.2	17.9	16.1	7.6	31.7	30.4	24.6	10.1
	10'' up	6.6	6.6	5.9	2.8	31.7	30.4	24.7	10.1
TOTAL CONIFERS.....	4''-9''	507.2	500.6	450.2	213.6	623.3	599.2	484.8	198.0
	10'' up	541.4	534.5	480.7	228.1	303.1	291.3	235.9	96.4
White birch.....	4''-9''	123.9	122.3	110.1	52.2	184.2	177.1	143.3	58.6
	10'' up	33.9	33.5	30.1	14.3	59.1	56.9	46.0	18.8
Poplar (all).....	4''-9''	363.0	358.3	322.3	152.9	423.8	407.5	329.8	134.7
	10'' up	665.3	656.8	590.6	280.3	402.4	386.8	313.0	127.9
Ash.....	4''-9''	16.1	15.9	14.3	6.8	46.0	44.2	35.8	14.6
	10'' up	4.2	4.1	3.7	1.8	3.1	3.0	2.4	1.0
TOTAL HARDWOODS.....	4''-9''	503.0	496.5	446.7	211.9	654.0	628.8	508.9	207.9
	10'' up	703.4	694.4	624.4	296.4	644.6	446.7	361.4	147.7
GRAND TOTAL.....	4''-9''	1010.2	997.1	896.9	425.5	1277.3	1228.0	993.7	405.9
	10'' up	1244.8	1228.9	1105.1	524.5	767.7	738.0	597.3	244.1
TOTAL 4'' UP.....		2255.0	2226.0	2002.0	950.0	2045.0	1966.0	1591.0	650.0

TABLE 54.—Volume of the primary growing stock in cubic feet per acre.  
St. Lawrence Section—1954

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)			CONIFEROUS IMMATURE (C-II)			ALL-AGED
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	
White pine.....	4''-9'' 10'' up	6.8 256.3	6.4 240.6	5.5 204.3	49.0 140.1	45.0 128.8	36.8 105.4	..... .....
White spruce.....	4''-9'' 10'' up	29.0 179.6	27.2 168.6	23.1 143.2	44.3 54.4	40.7 50.0	33.3 40.9	..... .....
Black spruce.....	4''-9'' 10'' up	2.4 .....	2.2 .....	1.9 .....	39.3 2.5	36.2 2.3	29.6 1.9	..... .....
Balsam fir.....	4''-9'' 10'' up	27.4 5.8	25.8 5.4	21.9 4.6	44.1 4.4	40.6 4.0	33.2 3.3	..... .....
Hemlock.....	4''-9'' 10'' up	3.1 41.9	2.9 39.4	2.4 33.5	22.3 26.2	20.5 24.1	16.8 19.7	..... .....
White cedar.....	4''-9'' 10'' up	449.1 887.6	421.6 833.3	358.2 707.8	675.9 197.4	621.4 181.4	508.3 148.4	..... .....
Larch.....	4''-9'' 10'' up	8.4 3.4	7.9 3.2	6.7 2.7	57.2 6.4	52.6 5.9	43.0 4.8	..... .....
TOTAL CONIFERS.....	4''-9'' 10'' up	526.2 1374.6	494.0 1290.5	419.7 1096.1	932.1 431.4	857.0 396.5	701.0 324.4	..... .....

TABLE 54 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)			CONIFEROUS IMMATURE (C-II) (Cont'd)			ALL-AGED (Cont'd)
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Sugar maple.....	4''-9'' 10'' up	1.3 10.5	1.2 9.9	1.0 8.4	3.3 8.4	3.0 7.8	2.5 6.3	.....
Soft maple.....	4''-9'' 10'' up	16.0 138.0	15.0 129.6	12.8 110.0	26.4 20.4	24.3 18.8	19.9 15.3	.....
White birch.....	4''-9'' 10'' up	5.2 32.7	4.9 30.7	4.2 26.0	24.5 14.0	22.5 12.9	18.4 10.5	.....
Yellow birch.....	4''-9'' 10'' up	9.8 11.5	9.2 10.8	7.8 9.2	7.3 7.8	6.7 7.1	5.5 5.8	.....
Elm.....	4''-9'' 10'' up	12.2 172.7	11.5 162.1	9.7 137.7	37.3 61.4	34.3 56.4	28.0 46.2	.....
Ironwood.....	4''-9'' 10'' up	0.5 1.9	0.5 1.7	0.4 1.5	3.2 0.2	2.9 0.2	2.4 0.1	.....
Poplar (all).....	4''-9'' 10'' up	4.2 29.0	3.9 27.3	3.3 23.2	32.3 34.6	29.7 31.8	24.3 26.0	.....
Black ash.....	4''-9'' 10'' up	7.9 1.6	7.4 1.5	6.3 1.3	12.2 1.2	11.2 1.1	9.2 0.9	.....
White ash.....	4''-9'' 10'' up	0.9 3.8	0.8 3.6	0.7 3.1	1.4 3.6	1.2 3.4	1.0 2.8	.....
Basswood.....	4''-9'' 10'' up	0.8 8.7	0.8 8.1	0.7 6.9	1.5 8.5	1.4 7.8	1.1 6.4	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	58.8 410.4	55.2 385.3	46.9 327.3	149.4 160.1	137.2 147.3	112.3 120.3	.....
GRAND TOTAL.....	4''-9'' 10'' up	585.0 1785.0	549.2 1675.8	466.6 1423.4	1081.5 591.5	994.2 543.8	813.3 444.7	.....
TOTAL 4'' UP.....		2370.0	2225.0	1890.0	1673.0	1538.0	1258.0	.....
		HARDWOOD MATURE (H-I)			HARDWOOD IMMATURE (H-II)			HARDWOOD ALL-AGED
White pine.....	4''-9'' 10'' up	0.1 14.2	0.1 13.1	0.1 11.4	2.1 7.8	1.9 7.0	1.5 5.6	0.5 9.6
White spruce.....	4''-9'' 10'' up	0.6 2.2	0.5 2.2	0.5 1.8	1.1 2.2	1.0 2.0	0.8 1.6	0.7 3.2
Balsam fir.....	4''-9'' 10'' up	2.4 0.4	2.2 0.4	2.0 0.3	5.9 0.7	5.4 0.6	4.3 0.5	3.0 1.0
Hemlock.....	4''-9'' 10'' up	10.7 46.3	9.9 43.0	8.6 37.4	11.3 15.1	10.3 13.6	8.2 10.9	7.7 23.8
White cedar.....	4''-9'' 10'' up	7.6 9.5	7.1 8.8	6.2 7.6	17.8 3.7	16.1 3.3	12.8 2.7	12.6 10.7
Larch .....	4''-9'' 10'' up	.....	.....	.....	1.4 0.2	1.3 0.2	1.1 0.1	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	21.4 72.6	19.8 67.5	17.4 58.5	39.6 29.7	36.0 26.7	28.7 21.4	24.5 48.3
Sugar maple.....	4''-9'' 10'' up	128.0 692.8	118.9 643.4	103.3 558.8	145.2 79.5	131.1 71.8	104.7 57.4	163.4 319.1
Soft maple.....	4''-9'' 10'' up	63.8 412.2	59.2 382.9	51.4 332.5	269.6 126.9	243.5 114.6	194.5 91.6	109.7 159.7
White birch.....	4''-9'' 10'' up	1.6 1.2	1.5 1.1	1.3 1.0	19.4 3.7	17.6 3.3	14.0 2.7	3.2 2.4
Yellow birch.....	4''-9'' 10'' up	21.1 38.7	19.6 36.0	17.0 31.3	28.0 11.6	25.3 10.5	20.2 8.4	22.1 21.3
Beech.....	4''-9'' 10'' up	15.3 98.7	14.2 91.7	12.3 79.6	10.7 12.4	9.7 11.2	7.7 9.0	9.5 32.6
Elm.....	4''-9'' 10'' up	102.1 695.9	94.9 646.3	82.4 561.3	269.1 234.8	243.0 212.1	194.2 169.4	159.3 367.5
Ironwood.....	4''-9'' 10'' up	14.7 2.4	13.7 2.2	11.9 1.9	11.2 0.4	10.0 0.4	8.0 0.3	19.6 1.6
Red oak.....	4''-9'' 10'' up	.....	.....	.....	1.1 3.9	1.0 3.5	0.8 2.8	0.7 3.5



TABLE 54 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) <i>(Cont'd)</i>			HARDWOOD IMMATURE (H-II) <i>(Cont'd)</i>			HARDWOOD ALL-AGED <i>(Cont'd)</i>
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	
White oak.....	4''-9'' 10'' up	0.9 7.7	0.8 7.1	0.7 6.2	2.0 3.0	1.8 2.7	1.4 2.2	2.5 6.8
Poplar (all).....	4''-9'' 10'' up	2.1 6.5	1.9 6.0	1.7 5.2	62.9 34.6	56.8 31.2	45.3 25.0	8.3 26.7
Black ash.....	4''-9'' 10'' up	23.6 10.6	21.9 9.9	19.0 8.6	29.8 3.2	26.9 2.9	21.5 2.3	16.9 2.7
White ash.....	4''-9'' 10'' up	18.0 76.0	16.7 70.7	14.5 61.4	59.6 27.9	53.9 25.2	43.0 20.2	28.8 42.4
Basswood.....	4''-9'' 10'' up	23.2 270.4	21.5 251.1	18.7 218.1	44.5 51.3	40.2 46.3	32.1 37.0	28.6 114.6
Black cherry.....	4''-9'' 10'' up	0.8 2.0	0.8 1.9	0.7 1.6	6.3 2.0	5.7 1.8	4.5 1.5	1.5 1.9
Butternut.....	4''-9'' 10'' up	2.0 9.4	1.8 8.8	1.6 7.6	4.4 5.5	4.0 4.9	3.2 3.9	2.0 9.1
Hickory.....	4''-9'' 10'' up	5.6 8.7	5.2 8.0	4.5 7.0	14.9 3.3	13.4 3.0	10.7 2.4	7.3 9.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	422.8 2333.2	392.6 2167.1	341.0 1882.1	978.7 604.0	883.9 545.4	705.8 436.1	583.4 1121.8
GRAND TOTAL.....	4''-9'' 10'' up	444.2 2405.8	412.4 2234.6	358.4 1940.6	1018.3 633.7	919.9 572.1	734.5 457.5	607.9 1170.1
TOTAL 4'' UP.....		2850.0	2647.0	2299.0	1652.0	1492.0	1192.0	1778.0
		MIXEDWOODS MATURE (M-I)			MIXEDWOODS IMMATURE (M-II)			MIXEDWOODS ALL-AGED
White pine.....	4''-9'' 10'' up	4.1 129.7	4.0 124.8	3.5 110.3	14.1 55.6	13.4 52.4	11.1 43.5	19.3 81.3
White spruce.....	4''-9'' 10'' up	7.0 49.6	6.7 47.8	5.9 42.2	19.5 24.3	18.4 22.9	15.3 19.0	13.7 33.9
Black spruce.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	9.6 0.1	9.1 0.1	7.5 0.1	..... .....
Balsam fir.....	4''-9'' 10'' up	18.8 4.3	18.2 4.1	16.0 3.7	40.5 3.3	38.2 3.1	31.7 2.6	19.3 2.3
Hemlock.....	4''-9'' 10'' up	72.6 305.6	69.9 294.4	61.7 259.9	39.8 42.8	37.6 40.4	31.2 33.6	39.3 90.0
White cedar.....	4''-9'' 10'' up	105.7 136.2	101.8 131.1	89.9 115.8	246.5 48.4	232.8 45.7	193.2 37.9	172.7 102.6
Larch.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	20.5 3.8	19.3 3.6	16.1 3.0	11.5 4.4
TOTAL CONIFERS.....	4''-9'' 10'' up	208.2 625.4	200.6 602.2	177.0 531.9	390.5 178.3	368.8 168.2	306.1 139.7	275.8 314.5
Sugar maple.....	4''-9'' 10'' up	56.6 344.8	54.5 332.1	48.1 293.2	14.8 12.7	14.0 12.0	11.6 10.0	36.2 80.8
Soft maple.....	4''-9'' 10'' up	50.7 242.6	48.9 233.6	43.1 206.3	140.3 101.1	132.5 95.5	109.9 79.3	79.0 109.6
White birch.....	4''-9'' 10'' up	6.6 8.8	6.3 8.6	5.6 7.5	63.7 17.3	60.1 16.4	49.9 13.6	12.6 9.0
Yellow birch.....	4''-9'' 10'' up	29.5 86.3	28.4 83.1	25.1 73.4	43.2 26.5	40.8 25.0	33.9 20.7	37.3 32.6
Beech.....	4''-9'' 10'' up	12.0 83.2	11.6 80.1	10.2 70.7	3.0 8.3	2.8 7.9	2.3 6.6	1.6 8.2
Elm.....	4''-9'' 10'' up	58.4 458.8	56.3 441.8	49.7 390.1	177.5 178.9	167.6 169.0	139.1 140.3	142.5 370.7
Ironwood.....	4''-9'' 10'' up	8.2 2.1	7.9 2.0	7.0 1.7	4.5 0.4	4.2 0.4	3.5 0.3	8.6 0.8
Red oak.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	0.9 2.3	0.9 2.2	0.7 1.8	1.4 3.1

TABLE 54 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) <i>(Cont'd)</i>			MIXEDWOODS IMMATURE (M-II) <i>(Cont'd)</i>			MIXEDWOODS ALL-AGED <i>(Cont'd)</i>
		DENSITY CLASS			DENSITY CLASS			
		1	2	3	1	2	3	
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	
White oak.....	4''-9'' 10'' up	0.5 7.2	0.5 6.9	0.5 6.1	0.6 1.0	0.6 0.9	0.5 0.8	0.7 9.6
Poplar (all).....	4''-9'' 10'' up	3.8 16.8	3.6 16.2	3.2 14.3	84.5 95.3	79.8 90.0	66.3 74.7	16.8 44.5
Black ash.....	4''-9'' 10'' up	20.6 5.1	19.8 5.0	17.5 4.4	32.3 3.3	30.5 3.2	25.3 2.6	26.9 4.0
White ash.....	4''-9'' 10'' up	8.3 43.2	8.0 41.6	7.1 36.7	12.7 6.7	12.1 6.3	10.0 5.2	8.4 11.6
Basswood.....	4''-9'' 10'' up	15.3 164.8	14.7 158.7	13.0 140.2	5.3 10.9	5.0 10.3	4.1 8.6	13.0 54.2
Black cherry.....	4''-9'' 10'' up	..... .....	..... .....	..... .....	1.0 0.6	1.0 0.5	0.8 0.5	0.4 0.9
Butternut.....	4''-9'' 10'' up	0.3 2.3	0.3 2.2	0.3 1.9	0.4 1.2	0.4 1.1	0.4 0.9	2.6 7.9
Hickory.....	4''-9'' 10'' up	1.8 0.8	1.7 0.8	1.5 0.7	..... .....	..... .....	..... .....	3.4 1.8
TOTAL HARDWOODS.....	4''-9'' 10'' up	272.6 1466.8	262.5 1412.7	231.9 1247.2	584.7 466.5	552.3 440.7	458.3 365.9	391.4 749.3
GRAND TOTAL.....	4''-9'' 10'' up	480.8 2092.2	463.1 2014.9	408.9 1779.1	975.2 644.8	921.1 608.9	764.4 505.6	667.2 1063.8
TOTAL 4'' UP.....		2573.0	2478.0	2188.0	1620.0	1530.0	1270.0	1731.0

TABLE 55.—Volume of the primary growing stock in cubic feet per acre.  
Superior Section—1949

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	178.6 121.0	168.8 114.4	133.1 90.3	..... .....	290.2 84.8	275.4 80.4	215.5 62.9	..... .....
White spruce.....	4"-9" 10" up	56.1 140.6	53.0 133.0	41.8 104.8	..... .....	75.1 45.6	71.2 43.3	55.7 33.9	12.9 .....
Black spruce.....	4"-9" 10" up	592.1 267.3	559.8 252.7	441.4 199.3	13.0 .....	751.1 74.3	712.7 70.5	557.6 55.2	..... .....
Balsam fir.....	4"-9" 10" up	615.7 155.9	582.2 147.4	459.1 116.2	366.7 .....	298.0 33.9	282.8 32.1	221.3 25.1	542.5 .....
White cedar.....	4"-9" 10" up	130.5 144.9	123.4 136.9	97.3 108.0	68.1 30.0	132.2 79.0	125.5 74.9	98.2 58.6	..... .....
Larch.....	4"-9" 10" up	..... .....	..... .....	..... .....	..... .....	25.8 .....	24.6 .....	19.2 .....	..... .....
TOTAL CONIFERS.....	4"-9" 10" up	1573.0 829.7	1487.2 784.4	1172.7 618.6	447.8 30.0	1572.4 317.6	1492.2 301.2	1167.5 235.7	555.4 .....
White birch.....	4"-9" 10" up	170.2 350.2	160.9 331.2	126.9 261.1	19.3 428.9	69.5 81.3	66.0 77.2	51.6 60.4	63.2 .....
Poplar (all).....	4"-9" 10" up	34.8 68.1	32.9 64.4	25.9 50.8	..... .....	77.0 37.2	73.1 35.3	57.2 27.6	26.4 .....
TOTAL HARDWOODS.....	4"-9" 10" up	205.0 418.3	193.8 395.6	152.8 311.9	19.3 428.9	146.5 118.5	139.1 112.5	108.8 88.0	89.6 .....
GRAND TOTAL.....	4"-9" 10" up	1778.0 1248.0	1681.0 1180.0	1325.5 930.5	467.1 458.9	1718.9 436.1	1631.3 413.7	1276.3 323.7	645.0 .....
TOTAL 4" UP.....		3026.0	2861.0	2256.0	926.0	2155.0	2045.0	1600.0	645.0

TABLE 55 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	30.3	2.7 22.0	2.6 20.9	2.0 16.0	.....
White spruce.....	4''-9'' 10'' up	39.0 47.0	38.5 46.3	33.5 40.3	..... 24.0	37.6 24.0	35.9 22.9	27.5 17.6	.....
Black spruce.....	4''-9'' 10'' up	22.0 7.6	21.7 7.5	18.9 6.6	20.2 .....	30.5 4.0	29.1 3.8	22.4 2.9	20.2 .....
Balsam fir.....	4''-9'' 10'' up	31.0 16.4	30.6 16.2	26.6 14.1	27.7 .....	45.3 16.3	43.2 15.6	33.1 12.0	.....
White cedar.....	4''-9'' 10'' up	.....	.....	.....	14.3 26.0	3.2 1.7	3.1 1.6	2.4 1.2	.....
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	23.2
TOTAL CONIFERS.....	4''-9'' 10'' up	92.0 71.0	90.8 70.0	79.0 61.0	62.2 80.3	119.3 68.0	113.9 64.8	87.4 49.7	43.4
White birch.....	4''-9'' 10'' up	608.8 274.8	600.6 271.1	522.5 235.9	387.7 121.7	709.0 203.5	675.6 193.9	519.0 148.9	17.3
Poplar (all).....	4''-9'' 10'' up	1024.4 894.0	1010.6 881.9	879.3 767.3	414.2 194.9	923.6 442.6	880.0 421.8	676.0 324.0	544.5 144.8
TOTAL HARDWOODS.....	4''-9'' 10'' up	1633.2 1168.8	1611.2 1153.0	1401.8 1003.2	801.9 316.6	1632.6 646.1	1555.6 615.7	1195.0 472.9	561.8 144.8
GRAND TOTAL.....	4''-9'' 10'' up	1725.2 1239.8	1702.0 1223.0	1480.8 1064.2	864.1 396.9	1751.9 714.1	1669.5 680.5	1282.4 522.6	605.2 144.8
TOTAL 4'' UP.....		2965.0	2925.0	2545.0	1261.0	2466.0	2350.0	1805.0	750.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	66.3 96.7	63.7 92.8	53.5 78.0	.....	38.3 25.8	36.6 24.6	29.1 19.5	.....
White spruce.....	4''-9'' 10'' up	167.4 240.0	160.8 230.4	135.1 193.7	25.4 17.8	155.6 93.0	148.5 88.8	118.2 70.6	35.3
Black spruce.....	4''-9'' 10'' up	261.1 75.0	250.7 72.0	210.8 60.5	45.8 .....	357.6 34.5	341.3 32.9	271.6 26.2	31.9
Balsam fir.....	4''-9'' 10'' up	351.8 96.3	337.8 92.5	283.9 77.8	217.1 41.0	211.3 37.3	201.7 35.6	160.5 28.3	49.1
White cedar.....	4''-9'' 10'' up	16.2 31.3	15.5 30.1	13.1 25.3	78.4 141.7	34.9 29.2	33.3 27.9	26.4 22.2	12.9
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	7.7	7.3	5.8	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	862.8 539.3	828.5 517.8	696.4 435.3	366.7 200.5	805.4 219.8	768.7 209.8	611.6 166.8	129.2
White birch.....	4''-9'' 10'' up	595.9 453.2	572.2 435.2	480.9 365.7	64.8 655.7	679.7 230.2	648.6 219.7	516.0 174.8	238.4 72.4
Poplar (all).....	4''-9'' 10'' up	319.0 624.8	306.3 600.0	257.5 504.2	22.3 .....	425.1 202.8	405.7 193.5	322.8 154.0	257.2 163.8
TOTAL HARDWOODS.....	4''-9'' 10'' up	914.9 1078.0	878.5 1035.2	738.4 869.9	87.1 655.7	1104.8 433.0	1054.3 413.2	838.8 328.8	495.6 236.2
GRAND TOTAL.....	4''-9'' 10'' up	1777.7 1617.3	1707.0 1553.0	1434.8 1305.2	453.8 856.2	1910.2 652.8	1823.0 623.0	1450.4 495.6	624.8 236.2
TOTAL 4'' UP.....		3395.0	3260.0	2740.0	1310.0	2563.0	2446.0	1946.0	861.0



TABLE 56.—*Volume of the primary growing stock in cubic feet per acre.*  
Timagami Section—1948

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
White pine.....	4''-9'' 10'' up	28.0 905.3	27.2 878.0	24.6 796.5	9.6 472.3	48.4 82.3	45.2 76.9	36.4 61.9	.....
Red pine.....	4''-9'' 10'' up	29.4 706.3	28.5 685.0	25.9 621.3	.....	61.7 114.5	57.6 107.0	46.4 86.2	.....
Jack pine.....	4''-9'' 10'' up	390.9 260.6	379.1 252.8	343.9 229.2	66.7 171.4	590.2 51.3	551.5 48.0	444.2 38.6	228.8 25.4
White spruce.....	4''-9'' 10'' up	44.8 79.6	43.5 77.2	39.4 70.1	39.4 73.1	44.8 32.4	41.9 30.3	33.7 24.4	63.4 71.6
Black spruce.....	4''-9'' 10'' up	306.1 107.5	296.8 104.3	269.3 94.6	73.6 25.8	441.9 49.1	412.9 45.9	332.6 36.9	95.9 14.3
Balsam fir.....	4''-9'' 10'' up	81.7 6.1	79.2 6.0	71.9 5.4	56.2	76.0 3.2	71.0 3.0	57.2 2.4	126.8
White cedar.....	4''-9'' 10'' up	195.1 258.7	189.3 250.9	171.7 227.6	156.6 383.4	102.7 65.6	95.9 61.3	77.3 49.4	6.8 5.2
Larch.....	4''-9'' 10'' up	.....	.....	.....	.....	23.6 0.2	22.0 0.2	17.7 0.2	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	1076.0 2324.1	1043.6 2254.2	946.7 2044.7	402.1 1126.0	1389.3 398.6	1298.0 372.6	1045.5 300.0	521.7 116.5
Sugar maple.....	4''-9'' 10'' up	3.7	3.6	3.2	.....	.....	.....	.....	.....
Yellow birch.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	.....
White birch.....	4''-9'' 10'' up	84.9 138.4	82.3 134.3	74.6 121.8	65.6 262.5	45.9 74.9	42.9 69.9	34.5 56.4	44.4 42.6
Poplar (all).....	4''-9'' 10'' up	17.1 15.8	16.6 15.4	15.1 13.9	10.9 7.9	47.8 23.5	44.6 22.0	35.9 17.7	24.8
Black ash.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL HARDWOODS.....	4''-9'' 10'' up	105.7 154.2	102.5 149.7	92.9 135.7	76.5 270.4	93.7 98.4	87.5 91.9	70.4 74.1	69.2 42.6
GRAND TOTAL.....	4''-9'' 10'' up	1181.7 2478.3	1146.1 2403.9	1039.6 2180.4	478.6 1396.4	1483.0 497.0	1385.5 464.5	1115.9 374.1	590.9 159.1
TOTAL 4'' UP.....		3660.0	3550.0	3220.0	1875.0	1980.0	1850.0	1490.0	750.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>	<i>cu. ft.</i>
White pine.....	4''-9'' 10'' up	5.4 128.5	5.2 125.1	4.7 113.9	19.0 81.0	7.0 51.3	6.5 47.7	5.2 38.3	.....
Red pine.....	4''-9'' 10'' up	.....	.....	.....	30.7 97.2	.....	.....	.....	.....
Jack pine.....	4''-9'' 10'' up	.....	.....	.....	.....	21.1 14.6	19.6 13.6	15.8 10.9	.....
White spruce.....	4''-9'' 10'' up	11.4 83.8	11.1 81.5	10.1 74.2	9.7 44.4	28.8 27.6	26.8 25.7	21.5 20.7	.....
Black spruce.....	4''-9'' 10'' up	5.2 0.7	5.1 0.7	4.7 0.6	.....	8.9 0.5	8.4 0.4	6.6 0.4	.....
Balsam fir.....	4''-9'' 10'' up	34.3 1.4	33.3 1.4	30.3 1.3	.....	19.5 1.2	18.0 1.2	14.6 0.9	.....
White cedar.....	4''-9'' 10'' up	5.1 9.8	4.9 9.6	4.5 8.7	.....	.....	.....	.....	.....
TOTAL CONIFERS.....	4''-9'' 10'' up	61.4 224.2	59.6 218.3	54.3 198.7	59.4 222.6	85.3 95.2	79.3 88.6	63.7 71.2	.....
Sugar maple.....	4''-9'' 10'' up	159.3 295.9	155.0 287.9	141.1 262.1	.....	31.5 19.3	29.3 18.0	23.5 14.4	.....
Yellow birch.....	4''-9'' 10'' up	51.1 517.1	49.8 503.1	45.3 458.0	.....	6.8 42.1	6.4 39.1	5.1 31.4	.....
Hornbeam.....	4''-9'' 10'' up	3.0	2.9	2.6	.....	.....	.....	.....	.....

TABLE 56 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4"-9" 10" up	134.2 475.7	130.6 462.9	118.8 421.4	158.3 61.5	508.1 89.7	473.0 83.5	379.8 67.0	137.2 197.4
Poplar (all).....	4"-9" 10" up	185.3 844.0	180.3 821.4	164.1 747.6	865.0 273.2	791.6 210.4	736.9 195.9	591.6 157.3	380.4 .....
Red maple.....	4"-9" 10" up	13.1 10.7	12.8 10.4	11.6 9.4	.....	.....	.....	.....	.....
TOTAL HARDWOODS.....	4"-9" 10" up	546.0 2143.4	531.4 2085.7	483.5 1898.5	1023.3 334.7	1338.0 361.5	1245.6 336.5	1000.0 270.1	517.6 197.4
GRAND TOTAL.....	4"-9" 10" up	607.4 2367.6	591.0 2304.0	537.8 2097.2	1082.7 557.3	1423.3 456.7	1324.9 425.1	1063.7 341.3	517.6 197.4
TOTAL 4" UP.....		2975.0	2895.0	2635.0	1640.0	1880.0	1750.0	1405.0	715.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White pine.....	4"-9" 10" up	18.7 354.9	18.3 347.1	16.5 314.3	23.8 452.2	94.1 174.7	90.7 168.5	76.6 142.3	5.7 185.1
Red pine.....	4"-9" 10" up	11.1 211.3	10.9 206.6	9.8 187.1	21.7 195.3	14.3 69.7	13.8 67.2	11.6 56.8	.....
Jack pine.....	4"-9" 10" up	44.8 121.2	43.8 118.6	39.7 107.3	.....	112.5 84.9	108.5 81.8	91.6 69.1	.....
White spruce.....	4"-9" 10" up	75.9 161.3	74.2 157.8	67.2 142.8	63.8 74.8	141.1 26.9	136.1 25.9	114.9 21.9	48.2 36.4
Black spruce.....	4"-9" 10" up	50.9 14.3	49.8 14.0	45.0 12.7	60.7 10.7	108.2 9.4	104.3 9.1	88.1 7.7	56.9 26.8
Balsam fir.....	4"-9" 10" up	105.2 10.4	102.9 10.2	93.2 9.2	32.2 .....	78.6 3.3	75.8 3.2	64.0 2.7	86.4 .....
White cedar.....	4"-9" 10" up	71.2 151.2	69.6 147.9	63.0 133.9	7.0 .....	25.9 20.3	24.9 19.6	21.1 16.5	6.9 14.7
TOTAL CONIFERS.....	4"-9" 10" up	377.8 1024.6	369.5 1002.2	334.4 907.3	209.2 733.0	574.7 389.2	554.1 375.3	467.9 317.0	204.1 263.0
Sugar maple.....	4"-9" 10" up	28.0 37.2	27.4 36.4	24.8 32.9	.....	16.3 2.6	15.6 2.6	13.2 2.2	26.7 7.5
Yellow birch.....	4"-9" 10" up	23.7 272.8	23.2 266.8	21.0 241.5	.....	7.9 6.8	7.7 6.5	6.5 5.5	.....
White birch.....	4"-9" 10" up	241.1 562.5	235.8 550.1	213.4 498.0	167.8 131.8	398.4 170.7	384.2 164.6	324.4 139.0	112.9 184.1
Poplar (all).....	4"-9" 10" up	127.1 270.2	124.4 264.2	112.5 239.2	94.9 63.3	325.4 208.0	313.8 200.6	204.9 169.4	43.7 58.0
TOTAL HARDWOODS.....	4"-9" 10" up	419.9 1142.7	410.8 1117.5	371.7 1011.6	262.7 195.1	748.0 388.1	721.3 374.3	609.0 316.1	183.3 249.6
GRAND TOTAL.....	4"-9" 10" up	797.7 2167.3	780.3 2119.7	706.1 1918.9	471.9 928.1	1322.7 777.3	1275.4 749.6	1076.9 633.1	387.4 512.6
TOTAL 4" UP.....		2965.0	2900.0	2625.0	1400.0	2100.0	2025.0	1710.0	900.0

TABLE 57.—Volume of the primary growing stock in cubic feet per acre.  
Western Transition Section—1950

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	525.0 364.8	495.3 344.2	386.6 268.7	208.2 134.3	896.1 111.9	817.7 102.1	573.5 71.6	215.0 26.9
White spruce.....	4"-9" 10" up	21.0 58.7	19.8 55.4	15.4 43.3	13.2 41.2	14.9 9.1	13.6 8.3	9.5 5.9	3.5 2.2

TABLE 57 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Black spruce.....	4"-9" 10" up	978.9 197.7	923.7 186.5	720.9 145.6	116.9 .....	679.3 52.7	619.9 48.1	431.8 33.7	163.0 12.7
Balsam fir.....	4"-9" 10" up	164.8 50.3	155.5 47.5	121.3 37.1	59.1 7.0	49.4 8.6	45.1 7.8	31.6 5.5	11.8 2.1
White cedar.....	4"-9" 10" up	6.8 3.8	6.4 3.6	5.0 2.8	32.5 107.0	.....	.....	.....	.....
Larch.....	4"-9" 10" up	.....	.....	.....	.....	3.3 0.7	3.0 0.6	2.1 0.4	0.8 0.2
TOTAL CONIFERS.....	4"-9" 10" up	1696.5 675.3	1600.7 637.2	1249.2 497.5	429.9 289.5	1643.0 183.0	1499.3 166.9	1051.5 117.1	394.1 44.1
White birch.....	4"-9" 10" up	80.9 67.8	76.3 64.0	59.6 49.9	45.5 32.4	52.8 9.2	48.2 8.4	33.8 5.9	12.7 2.2
Poplar (all).....	4"-9" 10" up	44.6 90.9	42.0 85.8	32.8 67.0	30.1 78.6	81.4 30.6	74.3 27.9	52.1 19.6	19.6 7.3
TOTAL HARDWOODS.....	4"-9" 10" up	125.5 158.7	118.3 149.8	92.4 116.9	75.6 111.0	134.2 39.8	122.5 36.3	85.9 25.5	32.3 9.5
GRAND TOTAL.....	4"-9" 10" up	1822.0 834.0	1719.0 787.0	1341.6 614.4	505.5 400.5	1777.2 222.8	1621.8 203.2	1137.4 142.6	426.4 53.6
TOTAL 4" UP.....		2656.0	2506.0	1956.0	906.0	2000.0	1825.0	1280.0	480.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	39.9 65.0	36.4 59.5	25.8 42.2	14.3 21.6	71.2 32.3	60.8 27.6	38.9 17.6	30.0 68.2
White spruce.....	4"-9" 10" up	12.8 26.2	11.7 23.9	8.3 17.0	1.5 .....	7.0 4.5	6.0 3.8	3.9 2.4	.....
Black spruce.....	4"-9" 10" up	41.7 6.3	38.1 5.7	27.0 4.1	.....	37.5 2.8	32.0 2.4	20.5 1.5	1.7
Balsam fir.....	4"-9" 10" up	23.4 18.6	21.3 17.0	15.2 12.0	14.2 .....	36.9 1.4	31.5 1.2	20.1 0.8	.....
TOTAL CONIFERS.....	4"-9" 10" up	117.8 116.1	107.5 106.1	76.3 75.3	30.0 21.6	152.6 41.0	130.3 35.0	83.4 22.3	31.7 68.2
White birch.....	4"-9" 10" up	369.5 119.2	337.6 108.9	239.4 77.3	81.5 .....	322.4 13.1	275.3 11.2	176.1 7.1	215.9
Poplar (all).....	4"-9" 10" up	1114.9 1060.5	1018.7 1060.2	722.6 752.1	177.7 437.2	1215.8 172.1	1038.2 147.0	664.1 94.0	31.2
TOTAL HARDWOODS.....	4"-9" 10" up	1484.4 1279.7	1356.3 1169.1	962.0 829.4	259.2 437.2	1538.2 185.2	1313.5 158.2	840.2 101.1	217.1
GRAND TOTAL.....	4"-9" 10" up	1602.2 1395.8	1463.8 1275.2	1038.3 904.7	289.2 458.8	1690.8 226.2	1443.8 193.2	923.6 123.4	278.8 68.2
TOTAL 4" UP.....		2998.0	2739.0	1943.0	748.0	1917.0	1637.0	1047.0	347.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4"-9" 10" up	214.3 299.7	198.7 277.7	144.4 202.0	.....	156.6 137.1	420.3 126.2	301.9 90.7	98.6 58.7
White spruce.....	4"-9" 10" up	67.8 139.6	62.8 129.4	45.7 94.1	110.4	12.7 14.5	39.3 13.3	28.2 9.6	40.4
Black spruce.....	4"-9" 10" up	288.7 123.1	267.6 114.1	194.6 83.0	59.6	337.0 34.6	310.3 31.8	222.9 22.9	54.0 64.6
Balsam fir.....	4"-9" 10" up	251.1 103.6	232.8 96.0	169.3 69.8	158.0 69.3	92.8 15.0	85.4 13.8	61.3 9.9	22.2
White cedar.....	4"-9" 10" up	.....	.....	.....	78.2	.....	.....	.....	2.2
Larch.....	4"-9" 10" up	.....	.....	.....	.....	4.4	4.0	2.9	.....
TOTAL CONIFERS.....	4"-9" 10" up	821.9 666.0	761.9 617.2	554.0 448.9	236.2 239.3	933.5 201.2	859.3 185.1	617.2 133.1	217.4 123.3



TABLE 57 (Cont'd)

SPECIES	D.B.H.	MIXEDWOODS MATURE (M-I) (Cont'd)				MIXEDWOODS IMMATURE (M-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9'' 10'' up	320.3 256.9	296.9 238.0	215.9 173.1	223.2 42.8	283.0 44.6	260.6 41.0	187.1 29.5	57.7 24.8
Poplar (all).....	4''-9'' 10'' up	362.2 578.7	335.7 536.3	244.1 390.0	..... 64.5	544.4 192.3	501.0 177.0	360.0 127.1	89.1 10.1
Ash.....	4''-9'' 10'' up	.....	.....	.....	.....	.....	.....	.....	16.9 14.7
TOTAL HARDWOODS.....	4''-9'' 10'' up	682.5 835.6	632.6 774.3	460.0 563.1	223.2 107.3	827.4 236.9	761.6 218.0	547.1 156.6	163.7 49.6
GRAND TOTAL.....	4''-9'' 10'' up	1504.4 1501.6	1394.5 1391.5	1014.0 1012.0	459.4 346.6	1760.9 438.1	1620.9 403.1	1164.3 289.7	381.1 172.9
TOTAL 4'' UP.....		3006.0	2786.0	2026.0	806.0	2199.0	2024.0	1454.0	554.0

TABLE 58.—Volume of the primary growing stock in cubic feet per acre.  
Western Transition Section—1951-1952

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	523.4 291.8	472.8 263.7	348.5 194.3	14.5 56.0	656.0 86.9	566.1 75.0	369.7 49.0	134.2 17.8
White spruce.....	4''-9'' 10'' up	22.2 16.6	20.1 14.9	14.8 11.0	.....	11.0 2.7	9.5 2.3	6.2 1.5	2.2 0.6
Black spruce.....	4''-9'' 10'' up	1087.0 207.0	982.0 187.0	723.7 137.8	368.7 205.6	938.6 35.0	899.9 30.2	529.0 19.8	192.0 7.2
Balsam fir.....	4''-9'' 10'' up	144.8 39.0	130.8 35.2	96.4 25.9	.....	48.9 5.8	42.2 5.0	27.6 3.3	10.0 1.2
TOTAL CONIFERS.....	4''-9'' 10'' up	1777.4 554.4	1605.7 500.8	1183.4 369.0	383.2 261.6	1654.5 130.4	1427.7 112.5	932.5 73.6	338.4 26.8
White birch.....	4''-9'' 10'' up	49.6 17.7	44.8 16.0	33.0 11.8	13.5	43.9 3.0	37.9 2.6	24.8 1.7	9.0 0.6
Poplar (all).....	4''-9'' 10'' up	78.8 110.1	71.2 99.5	52.5 73.3	19.7	79.6 43.6	68.7 37.6	44.8 24.6	16.3 8.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	128.4 127.8	116.0 115.5	85.5 85.1	33.2	123.5 46.6	106.6 40.2	69.6 26.3	25.3 9.5
GRAND TOTAL.....	4''-9'' 10'' up	1905.8 682.2	1721.7 616.3	1268.9 454.1	416.4 261.6	1778.0 177.0	1534.3 152.7	1002.1 99.9	363.7 36.3
TOTAL 4'' UP.....		2588.0	2338.0	1723.0	678.0	1955.0	1687.0	1102.0	400.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	70.0 122.8	66.5 116.8	53.1 93.1	22.7 39.7	59.6 33.6	56.2 31.6	44.9 25.2	18.6 10.4
White spruce.....	4''-9'' 10'' up	7.2 12.3	6.9 11.6	5.5 9.3	2.3 4.0	5.2 3.7	4.8 3.5	3.9 2.8	1.6 1.2
Black spruce.....	4''-9'' 10'' up	9.8 .....	9.3 .....	7.4 .....	3.2	40.0 4.4	37.7 4.1	30.1 3.3	12.4 1.4
Balsam fir.....	4''-9'' 10'' up	33.2 103.4	31.6 98.3	25.2 78.4	10.7 33.5	10.4 .....	9.8 .....	7.8 .....	3.2
TOTAL CONIFERS.....	4''-9'' 10'' up	120.2 238.5	114.3 226.7	91.2 180.8	38.9 77.2	115.2 41.7	108.5 39.2	86.7 31.3	35.8 13.0

TABLE 58 (Cont'd)

SPECIES	D.B.H.	HARDWOOD MATURE (H-I) (Cont'd)				HARDWOOD IMMATURE (H-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9'' 10'' up	153.3 285.9	145.7 271.9	116.2 216.8	49.6 92.6	105.1 .....	98.9 .....	79.0 .....	32.6 .....
Poplar (all).....	4''-9'' 10'' up	936.0 706.1	890.0 671.4	709.6 535.4	303.1 228.6	1110.8 107.2	1045.5 100.9	835.4 80.6	345.3 33.3
TOTAL HARDWOODS.....	4''-9'' 10'' up	1089.3 992.0	1035.7 943.3	825.8 752.2	352.7 321.2	1215.9 107.2	1144.4 100.9	914.4 80.6	377.9 33.3
GRAND TOTAL.....	4''-9'' 10'' up	1209.5 1230.5	1150.0 1170.0	917.0 933.0	391.6 398.4	1331.1 148.9	1252.9 140.1	1001.1 111.9	413.7 46.3
TOTAL 4'' UP.....		2440.0	2320.0	1850.0	790.0	1480.0	1393.0	1113.0	460.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	310.2 241.8	281.1 219.0	214.6 167.2	89.8 70.0	503.5 101.7	441.0 89.0	309.8 62.5	117.2 23.7
White spruce.....	4''-9'' 10'' up	67.1 111.8	60.8 101.3	46.4 77.4	19.4 32.4	60.5 14.1	53.0 12.3	37.2 8.7	14.1 3.3
Black spruce.....	4''-9'' 10'' up	324.0 109.7	293.6 99.4	224.1 75.9	93.8 31.8	280.0 33.2	245.2 29.1	172.3 20.4	65.2 7.7
Balsam fir.....	4''-9'' 10'' up	217.5 64.6	197.1 58.5	150.4 44.7	62.9 18.7	81.1 6.3	71.0 5.5	49.9 3.9	18.8 1.5
TOTAL CONIFERS.....	4''-9'' 10'' up	918.8 527.9	832.6 478.2	635.5 365.2	265.9 152.9	925.1 155.3	810.2 135.9	569.2 95.5	215.3 36.2
White birch.....	4''-9'' 10'' up	305.6 222.2	276.8 201.3	211.4 153.7	88.5 64.3	140.1 4.8	122.7 4.2	86.2 2.9	32.6 1.1
Poplar (all).....	4''-9'' 10'' up	360.9 697.6	327.1 632.0	249.7 482.5	104.5 201.9	742.7 163.0	650.3 142.7	456.9 100.3	172.9 37.9
TOTAL HARDWOODS.....	4''-9'' 10'' up	666.5 919.8	603.9 833.3	461.1 636.2	193.0 266.2	882.8 167.8	773.0 146.9	543.1 103.2	205.5 39.0
GRAND TOTAL.....	4''-9'' 10'' up	1585.3 1447.7	1436.5 1311.5	1096.6 1001.4	458.9 419.1	1807.9 323.1	1583.2 282.8	1112.3 198.7	420.8 75.2
TOTAL 4'' UP.....		3033.0	2748.0	2098.0	878.0	2131.0	1866.0	1311.0	496.0

TABLE 59.—Volume of the primary growing stock in cubic feet per acre.  
Western Transition Section—1953

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I)				CONIFEROUS IMMATURE (C-II)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
Jack pine.....	4''-9'' 10'' up	316.2 286.0	290.5 262.9	218.2 197.4	90.0 81.4	816.5 33.1	744.7 30.2	517.3 21.0	206.1 21.1
White spruce.....	4''-9'' 10'' up	28.3 138.2	26.0 127.0	19.5 95.4	8.1 39.3	8.6 10.2	7.8 9.3	5.5 6.4	..... 2.2
Black spruce.....	4''-9'' 10'' up	1024.8 229.5	941.7 210.9	707.2 158.4	291.8 65.3	588.3 25.8	536.6 23.5	372.9 16.3	113.1 16.8
Balsam fir.....	4''-9'' 10'' up	321.2 89.5	295.1 82.3	221.6 61.8	91.4 25.5	50.4 12.7	46.0 11.6	31.9 8.1	16.6
TOTAL CONIFERS.....	4''-9'' 10'' up	1690.5 743.2	1553.3 683.1	1166.5 513.0	481.3 211.5	1463.8 81.8	1335.1 74.6	927.6 51.8	335.8 40.1

TABLE 59 (Cont'd)

SPECIES	D.B.H.	CONIFEROUS MATURE (C-I) (Cont'd)				CONIFEROUS IMMATURE (C-II) (Cont'd)			
		DENSITY CLASS				DENSITY CLASS			
		1	2	3	4	1	2	3	4
		cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.	cu. ft.
White birch.....	4''-9''	91.8	84.4	63.4	26.2	37.2	33.9	23.6	.....
	10'' up	58.0	53.3	40.0	16.5	10.6	9.7	6.7	20.0
Poplar (all).....	4''-9''	39.8	36.6	27.5	11.3	100.8	91.9	63.8	18.1
	10'' up	151.7	139.3	104.6	43.2	11.8	10.8	7.5	22.0
TOTAL HARDWOODS.....	4''-9''	131.6	121.0	90.9	37.5	138.0	125.8	87.4	18.1
	10'' up	209.7	192.6	144.6	59.7	22.4	20.5	14.2	42.0
GRAND TOTAL.....	4''-9''	1822.1	1674.3	1257.4	518.8	1601.8	1460.9	1015.0	353.9
	10'' up	952.9	875.7	657.6	271.2	104.2	95.1	66.0	82.1
TOTAL 4'' UP.....		2755.0	2555.0	1915.0	790.0	1706.0	1556.0	1081.0	436.0
		HARDWOOD MATURE (H-I)				HARDWOOD IMMATURE (H-II)			
Jack pine.....	4''-9''	74.7	66.2	49.1	.....	44.2	40.3	30.7	65.4
	10'' up	13.3	11.8	8.7	40.0	16.3	14.8	11.3	29.4
White spruce.....	4''-9''	36.7	32.5	24.1	4.7	1.3	1.2	0.9	.....
	10'' up	43.3	38.4	28.4	.....	8.2	7.4	5.7	.....
Black spruce.....	4''-9''	76.0	67.4	49.9	9.4	43.5	39.6	30.1	16.0
	10'' up	.....	.....	.....	.....	.....	.....	.....	.....
Balsam fir.....	4''-9''	20.0	17.7	13.1	4.7	5.4	4.9	3.7	9.1
	10'' up	.....	.....	.....	.....	2.2	2.0	1.5	.....
TOTAL CONIFERS.....	4''-9''	207.4	183.8	136.2	18.8	94.4	86.0	65.4	90.5
	10'' up	56.6	50.2	37.1	40.0	26.7	24.2	18.5	29.4
White birch.....	4''-9''	260.9	231.2	171.2	164.3	216.4	197.0	150.1	209.6
	10'' up	7.2	6.4	4.7	562.5	8.6	7.8	5.9	.....
Poplar (all).....	4''-9''	2292.9	2032.2	1505.0	6.6	1459.9	1328.7	1012.2	241.5
	10'' up	1176.0	1042.2	771.8	383.8	85.0	77.3	58.9	.....
TOTAL HARDWOODS.....	4''-9''	2553.8	2263.4	1676.2	170.9	1676.3	1525.7	1162.3	451.1
	10'' up	1183.2	1048.6	776.5	946.3	93.6	85.1	64.8	.....
GRAND TOTAL.....	4''-9''	2761.2	2447.2	1812.4	189.7	1770.7	1611.7	1227.7	541.6
	10'' up	1239.8	1098.8	813.6	986.3	120.3	109.3	83.3	29.4
TOTAL 4'' UP.....		4001.0	3546.0	2626.0	1176.0	1891.0	1721.0	1311.0	571.0
		MIXEDWOODS MATURE (M-I)				MIXEDWOODS IMMATURE (M-II)			
Jack pine.....	4''-9''	142.4	134.9	105.6	5.3	392.7	368.8	285.3	191.2
	10'' up	193.4	183.2	143.4	83.7	69.8	65.6	50.8	59.4
White spruce.....	4''-9''	77.4	73.3	57.4	23.2	19.5	18.3	14.2	.....
	10'' up	188.6	178.7	139.8	143.8	23.3	21.9	16.9	.....
Black spruce.....	4''-9''	375.6	355.8	278.4	44.0	243.5	228.7	176.9	89.3
	10'' up	106.5	101.0	79.0	.....	16.6	15.6	12.1	64.4
Balsam fir.....	4''-9''	259.3	245.6	192.2	99.0	61.4	57.6	44.6	.....
	10'' up	99.8	94.6	74.0	101.0	7.7	7.3	5.6	.....
TOTAL CONIFERS.....	4''-9''	854.7	809.6	633.6	171.5	717.1	673.4	521.0	280.5
	10'' up	588.3	557.5	436.2	328.5	117.4	110.4	85.4	123.8
White birch.....	4''-9''	329.9	312.5	244.5	75.3	200.0	187.9	145.3	59.9
	10'' up	112.3	106.4	83.3	246.7	25.5	23.9	18.5	.....
Poplar (all).....	4''-9''	466.5	441.9	345.8	34.7	536.2	503.6	389.6	56.8
	10'' up	973.3	922.1	721.6	143.3	49.8	46.8	36.2	.....
TOTAL HARDWOODS.....	4''-9''	796.4	754.4	590.3	110.0	736.2	691.5	534.9	116.7
	10'' up	1085.6	1028.5	804.9	390.0	75.3	70.7	54.7	.....
GRAND TOTAL.....	4''-9''	1651.1	1564.0	1223.9	281.5	1453.3	1364.9	1055.9	397.2
	10'' up	1673.9	1586.0	1241.1	718.5	192.7	181.1	140.1	123.8
TOTAL 4'' UP.....		3325.0	3150.0	2465.0	1000.0	1646.0	1546.0	1196.0	521.0



## Common and Botanical Names of Tree Species Included in Timber Estimates

### CONIFERS

White pine.....	<i>Pinus Strobus</i> L.
Red pine.....	<i>Pinus resinosa</i> Ait.
Jack pine.....	<i>Pinus Banksiana</i> Lamb.
Pitch pine.....	<i>Pinus rigida</i> Mill.
White spruce.....	<i>Picea glauca</i> (Moench) Voss
Black spruce.....	<i>Picea mariana</i> (Mill.) BSP.
Balsam fir.....	<i>Abies balsamea</i> (L.) Mill.
Hemlock.....	<i>Tsuga canadensis</i> (L.) Carr.
White cedar.....	<i>Thuja occidentalis</i> L.
Red cedar.....	<i>Juniperus virginiana</i> L.
Eastern larch.....	<i>Larix laricina</i> (Du Roi) K. Koch

### HARDWOODS

Sugar maple.....	<i>Acer saccharum</i> Marsh.
Soft maple.....	<i>Acer rubrum</i> L. <i>Acer saccharinum</i> L.
White birch.....	<i>Betula papyrifera</i> Marsh.
Yellow birch.....	<i>Betula lutea</i> Michx. f.
Beech.....	<i>Fagus grandifolia</i> Ehrh.
Elm.....	<i>Ulmus americana</i> L. <i>Ulmus rubra</i> Muhl. <i>Ulmus Thomasi</i> Sarg.
Ironwood.....	<i>Ostrya virginiana</i> (Mill.) K. Koch
Red oak.....	<i>Quercus rubra</i> var. <i>borealis</i> (Michx. f.) Farw. <i>Quercus velutina</i> Lam. <i>Quercus palustris</i> Muench.
White oak.....	<i>Quercus alba</i> L. <i>Quercus macrocarpa</i> Michx. <i>Quercus bicolor</i> Willd. <i>Quercus Muehlenbergii</i> Engelm. <i>Quercus prinoides</i> Willd.
Poplar.....	<i>Populus tremuloides</i> Michx. <i>Populus balsamifera</i> L. <i>Populus grandidentata</i> Michx. <i>Populus deltoides</i> Marsh.
Ash.....	<i>Fraxinus nigra</i> Marsh. <i>Fraxinus americana</i> L. <i>Fraxinus pennsylvanica</i> Marsh. Var. <i>subintegerrima</i> (Vahl) Fern.
Basswood.....	<i>Tilia americana</i> L.
Black cherry.....	<i>Prunus serotina</i> Ehrh.
Butternut.....	<i>Juglans cinerea</i> L.
Hickory.....	<i>Carya ovata</i> (Mill.) K. Koch <i>Carya cordiformis</i> (Wang) K. Koch <i>Carya tomentosa</i> Nutt. <i>Carya glabra</i> (Mill.)

## *Notes*

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